HERITAGE RESOURCE INVENTORY AND IMPACT ASSESSMENT
KELLY LAKE - NICOLA TRANSMISSION LINE,
HAT CREEK BYPASS SEGMENT, SOUTH CENTRAL B.C.
M.O. 1982-3

Prepared for

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EXECUTIVE SUMMARY

A heritage resource inventory and impact assessment was conducted of a 29 km segment of the Kelly Lake - Nicola No. 1 transmission line in October, 1982 and April, 1983 under Ministerial Order 1982-3. Twenty-five new sites were added to the regional inventory and an additional six previously known sites were re-investigated. Most of the sites (N=22) are classed as prehistoric lithic scatters. This is consistent with results of other research in the region (Pokotylo 1977; Warner and Magne 1982). Other prehistoric site types recorded for the project are isolated finds (N=4), circular cultural depressions (N=1), and lithic scatters combined with circular cultural depressions (N=3). A single historic site, thought to represent wagon remains, was also recorded.

Sixteen of these heritage resource sites are situated within the right-of-way and/or clearing boundaries. Most of these sites can be protected through project design modification, implemented during clearing stages. Two possible unavoidable conflicts with sites EfRh 16 and EfRj 30 do exist, however. Because of the limited nature of EfRh 16, it is recommended that further investigations or protective measures need not be undertaken. EfRj 30, an intact, buried site presumed to be a lithic scatter, presents opportunity for further experimental research. It is recommended the site be utilized to test the effectiveness of winter logging as a viable avoidance option for heavily forested buried sites.

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1.0 INTRODUCTION

At the request of the British Columbia Hydro and Power Authority, a heritage resource inventory and impact assessment of a 29 km route relocation of the Kelly Lake - Nicola No. 1 500 kV transmission line was conducted. The line was rerouted in order to avoid Hat Creek Valley and to provide a more direct alignment to the Kelly Lake substation. The route revision section is referred to as the Hat Creek Bypass.

In addition to assessing the physical impacts of the project, the visual effects of the proposed alignment on Hat Creek House, a nearby historic site were addressed.

The reconnaissance was initiated in late October of 1982. Early snow falls resulted in some parts of the Bypass being left unsurveyed. The study team returned to the area in April of 1983 to complete the inventory.

The reconnaissance was conducted under Ministerial Order 1982-3. Project personnel were Jane Warner, Martin Magne and Bob Hansen.

1.1 PROJECT HISTORY

Archaeological studies of the proposed transmission line were initiated in 1976 when Charles Weber and Brian Seymour surveyed a preliminary corridor from Kelly Lake to Nicola (Weber and Seymour 1976). In 1978, following route selection and partial centre-cutting, portions of the Kelly Lake - Nicola line were surveyed (Wilson 1979). The next year, following route changes and further centre-cutting, Jane Warner returned to the project area (Warner 1980). Following the 1979 field season, it was recommended that examination of the proposed right-of-way between and including the Bonaparte and Thompson River crossings would complete the survey of the proposed line (Warner 1980). This study was completed in 1982 (Warner and Magne 1982).

The present study of the Hat Creek Bypass completes the inventory studies of the Kelly Lake - Nicola 500 kV No. 1 transmission line. This report is intended as a supplement to previous studies and therefore the bulk of the documentary research is not repeated. The reader is referred to Wilson (1979) and Warner (1980) for descriptions of the environment as well as discussions of pertinent archaeology.

2.0 PROJECT DESCRIPTION

The proposed Kelly Lake - Nicola route is approximately 145 km in length. Twin 500 kV lines were originally scheduled for construction, each requiring a 33 m right-of-way to the outside with 54 m separating the lines. However, presently only the northern circuit (Kelly Lake -

Nicola No. 1) requiring a right-of-way width of 60 m is planned for immediate construction. Prelogging and clearing have been initiated on other parts of the line with construction scheduled for completion in 1984. No ancillary developments are proposed for the development.

In the north, the Bypass begins about 4 km northwest of Maiden Creek crossing and joins the main route about 1 km north of the Cache Creek crossing. The length of the proposed Bypass alignment is approximately 29 km.

3.0 STUDY AREA

The study area is encompassed by the Thompson Plateau - a "gently rolling upland of low relief, for the most part lying between 4,000 and 5,000 feet" (Holland 1964:71). In addition to the major watercourse of the Bonaparte River, the route crosses Hat Creek and Maiden Creek as well as several smaller tributaries. The proposed route principally traverses the Ponderosa pine - bunchgrass biogeoclimatic zone (Krajina 1976). The vegetative cover is predominantly sagebrush and bunchgrass on thin and exposed alluvial soils. The Maiden Creek Valley and vicinity are characterized by the Interior Douglas fir zone. Englemann spruce, lodgepole pine, Douglas fir and trembling aspen are the major tree species. The forest is typically quite open with little moss development.

There are two previous archaeological projects of relevance to this segment of the proposed alignment. In 1975, Pokotylo (1977) surveyed transects in the Semlin and Bonaparte Valleys in an effort to inventory and evaluate the region's archaeological resources and to determine the impact of future rail developments on these resources. Sixty-two archaeological sites were added to the provincial inventory. Of these, most are classed as "chipping stations" or lithic scatter sites. Most sites were recorded on elevated ground - low ridges, valley benches, small knolls and hill crests (Pokotylo 1977:31). An exception is noted in the western periphery of the Semlin Valley and lower Bonaparte Valley where sites were noted "both on the valley floors and adjacent benches on the slopes" (Pokotylo 1977:31). Pokotylo feels small "chipping stations"

deserve more attention than has traditionally been afforded them and recommends they be the focus of future work in order to determine their relationships in the regional settlement system (1977:15).

The other archaeological project conducted in the vicinity of the proposed transmission line is Whitlam's (1980) excavation of EeRh 3, a lithic scatter site, located east of the town of Cache Creek on Lopez Creek. This is a complex site consisting of several clusters of surface artifacts as well as buried deposits. Rock features, possibly marking burials, were also recorded at this prehistoric site. On the basis of "the distribution of surface signatures, topographic variability and density characteristics of the cultural material" (Whitlam 1980:78), EeRh 3 was divided into 4 areas. Whitlam notes projectile point forms indicate a Lower Middle period occupation for area 1, an Upper Middle to Late Period occupation for areas 2 and 4, while area 3 is assigned to the Late Period (Whitlam 1980:79). In addition to these temporal differences, Whitlam's research indicated functional variations among the areas as well. According to the researcher then, this temporal and functional variability within the site belies the simple, standard designation "chipping station" (Whitlam 1980:100). While agreeing with Pokotylo (1977) that the frequency of this site type may well approach 75% of the total archaeological resource base of the Clinton - Ashcroft area, Whitlam cautions against the masking of intra-site variability through the usage of terms like "chipping station". In conclusion, he stresses the need for characterization of "the temporal and functional profile of these resources" (Whitlam 1980:132).

While this suggestion (though impractical at an inventory level of research) is noble, Whitlam has recently been taken to task on other grounds. Magne (n.d.) disputes Whitlam's methods. In particular, Magne is concerned with the artifact analysis and the functional artifact classification scheme employed by Whitlam.

Other archaeological studies within the area have been largely devoted to project-specific inventory of the archaeological resource base. These are documented in the previous report (Warner 1980). Subsequent to the writing of that report, a survey was conducted in the vicinity

of the proposed alignment. In 1981, Brolly and Bollong inventoried a portion of the Maiden Creek Valley for the Heritage Conservation Branch. Twelve new sites were added to the regional inventory. All are lithic scatter sites; one of these also possesses circular cultural depressions (Brolly 1981).

In summary, review of the archaeological literature (see Wilson 1979; Warner and Magne 1982; Pokotylo 1977) of the region reveals the most common site type to be the lithic scatter. These sites have been afforded little investigative attention. Traditionally, the emphasis of prehistoric research in the Interior Plateau has been housepit excavation in an effort to gather data pertinent to the formation of culture history schemes. Of late, it is argued by the major researchers in the region that the level of knowledge regarding lithic collections is now sophisticated enough to derive meaningful data, particularly regarding assemblage variability and settlement systems, from these sites (Pokotylo 1977; Whitlam 1980).

4.0 PROCEDURES

Because this project is a continuation of the previous surveys undertaken in 1978, 1979 and 1982 (Wilson 1979; Warner 1980; Warner and Magne 1982), prefield procedures were minimal. The site files of the Heritage Conservation Branch were examined to ascertain whether new sites had been recorded in the proximity of the proposed route.

The field reconnaissance employed a two-person crew traversing the proposed alignment on foot. Access was gained by either truck or helicopter. Centre line cutting had not been started in the fall of 1982 when the inventory was initiated. The two-person field crew flew the proposed route with Bill Hendren, B.C. Hydro's survey chief, to identify the route as accurately as possible without the aid of a centre-cut. Once on ground, the survey team traversed the right-of-way at 20 m transect intervals aligned parallel to the line. The survey program was augmented by "random walks" or following of natural features where appropriate. Especially sensitive areas were more intensively investigated on a judgemental basis. All exposures, either natural or cultural were examined.

In order to locate possible buried sites, shovel testing was undertaken. Shovel tests (40 cm x 40 cm approximately) were excavated at 50 m intervals in areas considered of at least moderate heritage resource potential with poor surface exposure. Most of the right-of-way situated in open grasslands evidenced excellent surface exposures, however. In some areas thick accumulations of pine needles necessitated clearing or scraping of the ground surface. These "scrapes" were generally 1 m x 1 m in size.

The entire route was examined with three exceptions. These are:

1) The Tsilsalt Ridge from TWR 13/2 to the Maiden Creek crossing. (Similar segments of the original alignment were completely traversed in 1979 with negative results. Portions of the new alignment in this area were investigated in 1982 - albeit with a skiff of snow; they were considered of low potential.)

2) Thompson Plateau between the Maiden Creek crossing and the unnamed lake to the east. (This area has been heavily disturbed through logging.)

3) With one exception, the Thompson Plateau east of the unnamed lake and west of the right-of-way intersection with a dirt road leading from the gravel pit in I.R. 2. The exception is the right-of-way crossing of the unnamed tributary of Hat Creek.

When sites were encountered, shovel testing was undertaken to determine the vertical and horizontal extent of the deposits. This was done on a judgemental basis. In some instances where no soil deposition was apparent or the site was known to be off the right-of-way evaluative shovel testing was not undertaken.

To facilitate determination of the impact status of the sites, all site boundaries were marked with flagging tape. Following the Fall 1982 inventory, Bill Hendren of B.C. Hydro was shown the sites' locations so they could be tied into the centre line once centre-cutting was initiated. To aid in this procedure, the sites were further marked with lath. Following the Spring 1983 inventory, B.C. Hydro environmental officer K.D. Walsh was informed of the new sites' locations. Sites discovered during the spring inventory could be more accurately plotted by the archaeologists

because of the presence of the centre line. Sites, thus, were tied in at the inventory stage to the B.C. Hydro hub markers during the spring field programme. Once all sites could be plotted in relation to these hub markers the sites' positions relative to the right-of-way were discernable.

In the spring of 1983 Bjorn Simonsen, David Walsh and Roger Nissen of B.C. Hydro and Brian Apland of the Heritage Conservation Branch visited most of the heritage sites to determine the preferred management options.

The impact of the proposed Kelly Lake - Nicola transmission line on Hat Creek House was assessed by site visit. By viewing and photographing the site in relation to the proposed alignment the visual effects could be determined.

5.0 RESULTS

5.1 RESOURCE INVENTORY

Nineteen new sites were inventoried in the October field programme and six previously recorded sites were re-inspected. Six additional sites were recorded during the completion of inventory in the spring. All 31 sites are discussed below. The locations of these sites are shown in Figure 1, page 8. The site forms with site sketch maps are included in Appendix 1.

EfRj 24

This site was initially recorded by Brolly in 1981. It is a large lithic scatter; circular cultural depression site encompassing an area 130 m N-S x 190 m E-W on the north side of the Maiden Creek Valley. Nine basalt artifacts were recorded as well as two small cultural depressions. Two shovel tests revealed subsurface cultural material. This prehistoric site has been previously disturbed through use of the area as a log landing by Evans Products.

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LEGEND

.....	Kelly Lake - Nicola No. 1 transmission line
EfRj 27	Borden number
•	Heritage site

SCALE 1:50,000

TITLE Route Alignment Showing Heritge Site Locations

FIGURE 1

EfRj 25

This prehistoric lithic scatter site was recorded by Brolly in 1981. Nine basalt artifacts were recorded from an area 30 m N-S x 50 m E-W in size. The site area is largely disturbed through its use as a log landing. No subsurface deposits were encountered at this site which is located on the north side of the Maiden Creek Valley.

EfRj 26

EfRj 26 is also a lithic scatter site located in the Maiden Creek Valley. Fifteen basalt artifacts were recorded in an area 40 m N-S x 60 m E-W. All were noted in a disturbed context with no subsurface cultural material noted.

EfRj 27

This site consists of approximately 30 basalt artifacts recorded within an area 30 m N-S x 40 m E-W. As with the three sites previously discussed, EfRj 27 is located in the Maiden Creek Valley. Its discovery was facilitated by the existence of a log landing. The creation of this development revealed the noted cultural deposits. The site does not extend beyond disturbed areas.

EfRj 28

This lithic scatter site is situated on a narrow east-west trending ridge on the sideslope on the north side of the Maiden Creek Valley. This ridge is well-exposed and virtually bare of vegetation with the exception of bunchgrass. Game trails bisect the landform further adding to the excellent surface exposure. An open fir and pine forest covers the sideslopes surrounding the ridge.

Plate 1, page 34, illustrates the site area. One core fragment and 12 basalt flakes were noted on the surface of this prehistoric site which measures 8 m N-S x 30 m E-W. Shovel testing was not deemed necessary.

EfRj 29

Located to the southeast of the above site, EfRj 29 is situated in an area of open Douglas fir forest. This site is located approximately 15 m above Maiden Creek on the sideslopes of the north side of the valley. A circular cultural depression and a basalt flake were recorded at this

prehistoric site. The feature measures 5.8 m N-S x 7.7 m E-W. A distinct rim is present at the southern and eastern arcs: 2.7 m in thickness and 2 m, respectively. The north and west portions of the feature blend into the natural slope of the land. The depth of this cultural depression varies to 30 cm. The basalt flake was noted on the rim in the southern arc. Outside the feature, five shovel tests were excavated; none yielded cultural materials. Shovel testing was not possible within the feature due to the presence of frozen ground. A soil profile of shovel test #5 is illustrated in Figure 2, Appendix 2. The surface litter was removed in two areas within the feature revealing numerous rocks, possibly fire-cracked, and black soil (Plate 2, page 34). The soil colour could be indicative of use of the feature as a roasting pit or could simply be the humic layer, noted to a depth of 3 cm in the external tests. Deeper internal tests would have been illuminating.

Between the circular depression at EfRj 29 and Maiden Creek exist several other depressions. Most are likely the result of tree falls, however, one may possibly be cultural. Because frozen ground precluded testing, perhaps this area should be regarded as sensitive.

EfRj 30

This lithic scatter site is situated on the first terrace above Maiden Creek on the south side of the valley in a wooded area. EfRj 30 presently extends back from the terrace edge to a dirt track at the base of the slope. Construction of this track has likely resulted in minor disturbance to this heritage site. Fill may possibly have been brought in during road construction. Site dimensions of 23 m N-S x 30 m E-W were recorded for this important site.

EfRj 30 is considered important because it is essentially a buried and intact site. A single basalt flake was recorded on the site's surface and 14 pieces of basalt debitage were recovered from 6 shovel tests. These 14 artifacts consist of a basalt core fragment and 13 basalt flakes. All were found at depths of 2 to 10 cm below surface with most found in the first 4 cm. It should be noted that the ground was partially frozen in some of the tests thus depths below surface may not be precise. An add-

itional 6 shovel tests failed to yield artifacts. Soil profiles from this site are shown in Figure 2, Appendix 2. A photograph of the site is presented in Plate 3, page 34, while Plate 4, page 34, shows one of the positive subsurface tests.

EfRi 45

EfRi 45 is a large lithic scatter; circular cultural depression site which is situated on an east-west trending ridge on the west side of a large meadow (Plate 5, page 35). This meadow is associated with an unnamed tributary of Hat Creek. Vegetation on this landform consists of grasses, rabbitbush, pine, and juniper. The amount of soil varies at this site depending on very localized conditions. An average of 6-8 cm of medium-brown silt overlies gravel deposits. In addition to the 40-50 pieces of basalt debitage and a basalt biface observed on the site's surface, a single circular cultural depression was recorded. The depression is 4 m x 4 m in size with a depth of 5 cm. Plate 6, page 35, illustrates this cultural feature. None of the 5 shovel tests excavated at this site was productive. Site dimensions are 50 m N-S x 110 m E-W.

EfRi 46

This small, lithic scatter site consists of 9 basalt artifacts recorded in an area 15 m N-S x 10 m E-W. It is located on a small terrace above the meadow associated with the tributary of Hat Creek. Four shovel tests were excavated without result at this undisturbed heritage resource site. Further examination might prove site EfRi 46 to be an extension of EfRi 45. The sites are in close proximity and are both situated above the meadow.

EfRi 47

EfRi 47 is a large, potentially important heritage resource site that is located on both sides of an unnamed tributary of Hat Creek. The vegetative cover of the site is an open Porderosa pine - Douglas fir forest. Site dimensions are 150 m N-S x 125 m E-W. The prehistoric materials consist of 2 basalt bifaces, 2 projectile points, in excess of 200 pieces of basalt debitage and 3 circular cultural depressions. Four areas of artifact concentration were recorded. The circular cultural depressions are 3 m x 3m, 1 m x 1m and 3 m x 2.75 m in size. Two of these are shown in Plate 7, page 35. The Historic period is represented at EfRi 47 by

an east-west log fence; the remains of a cabin; and historic debris. Plates 8, 9 and 10, pages 35 and 36, illustrate these historic features and artifacts. The cabin is 4 m x 4 m in size and is oriented northwest-southeast. This feature is in exceedingly poor condition. Pieces of bottle glass, tin can fragments, unidentifiable pieces of tin, a tobacco can, a tin cup, and a metal shaker top were all recorded in the vicinity of the cabin. The locations of the bifaces, projectile points, artifact concentrations, log fence, cabin, and historic debris are all noted on the site form maps found in Appendix 1. Due to the excellent surface exposure provided by the thin vegetation (note Plates 9 and 10, page 36) and the exposure provided by the road cut which bisects the site, shovel testing was not considered necessary. Except for the disturbance which resulted from the construction and maintenance of this road, site values have not been impaired at EfRi 47.

EfRi 48

Ten basalt flakes were recorded at this small lithic scatter site. Seven of these were noted in a low, open area (10 m x 10 m in size), 150 m east of the unnamed tributary of Hat Creek with which EfRi 47 is associated. An additional 3 flakes were noted in a disturbed context in a road cut. Five shovel tests were excavated; none yielded cultural materials. A photograph of one of these subsurface tests is shown in Plate 11, page 36. In this test, which was placed near the site centre, in the low area, 22 cm of soil was encountered. Tests elsewhere on the site yielded from 4 to 9 cm of deposition, indicating the development of soil is dependent upon very localized conditions. Like EfRi 47, EfRi 48 is situated in an area of open pine and fir forest.

EfRi 47 and 48 are possibly related.

EfRi 49

EfRi 49 is a large lithic scatter site on the north side of Hat Creek. It is situated in the valley bottom and encompasses three low grass and sage covered terraces. Site dimensions are 50 m N-S x 150 m E-W. Cultural indicators consist of a projectile point and approximately 100

pieces of basalt detritus. Plate 12, page 36, illustrates this prehistoric site. Construction of Highway 12 has probably impacted the northern portions of this site. Thus, the north-south dimensions were probably larger than estimated prior to highway construction. The east-west dimensions may have been larger than reported due to the presence of another terrace at. the western edge of the site. Because it is far removed from the right-of-way, it was not examined. Shovel testing was not conducted at this site.

EfRi 58

This historic site consists of the remains of an old wagon which has a decayed frame with a large axle support log. Iron fittings are present as are both round nails and at least one square nail. This feature is 10 m x 5 m with a maximum thickness of 0.47 m. To the south of this feature are an axe-cut pole, a hand-hewn adze-squared board, and several large mammal bones. The latter evidence carnivore and/or rodent activity. Plate 13, page 37, illustrates this historic site.

EfRi 50

This isolated find site consists of a single basalt flake situated to the south of a large bedrock outcropping on a high bench on the west side of the Bonaparte River. Neither of the two shovel tests excavated yielded cultural materials. The soil is very thin (< 5 cm) with a sparse ground cover of grasses, sagebrush, and cactus.

EfRi 51

EfRi 51 is also an isolated find site consisting of a single basalt flake. Like EfRi 50, it is situated on the high bench on the west side of the Bonaparte River Valley. Two shovel tests were excavated, neither yielded subsurface cultural materials. The vegetative and soil characteristics are similar to EfRi 50.

EfRi 52

This isolated find site consists of a basalt biface fragment. The artifact is situated at the base of the slopes on the east side of the Bonaparte River. As this site is well out of the right-of-way, subsurface testing was not conducted.

EfRi 53

A single side-notched projectile point was recorded at EfRi 53. It is situated at the terrace edge on the east side of the Bonaparte River Valley. None of the three shovel tests was positive. Plate 14, page 37, is a photograph of this broken, basalt point. As can be seen in the picture surface exposure was excellent at this small prehistoric site.

EfRi 12

This prehistoric site was originally recorded by Pokotylo in 1975 as a lithic scatter of 13 basalt flakes (Pokotylo 1977). In 1982, 20 basalt flakes were recorded in an area 20 m x 20 m. EfRi 12 is situated on a grass covered, level terrace northwest of an unnamed tributary of the Bonaparte River (Plate 15, page 37). This heritage resource site is presently undisturbed. Three shovel tests were excavated; all were negative.

On the slopes to the tributary below the site, an additional 20-30 pieces of basalt debitage were observed. The distribution of these is thought to reflect downslope erosion.

EfRi 11

EfRi 11, a lithic scatter site, is situated uphill from EfRi 12 at the base of a slope on a high ridge overlooking the unnamed tributary of the Bonaparte River (Plate 16, page 37). Like the previously discussed site, EfRi 11 was originally recorded by Pokotylo in 1975 (Pokotylo 1977). Thirty pieces of basalt debitage were recorded within an area 20 m x 20 m in size in 1982 as compared to the 10 pieces observed in 1975. Three shovel tests failed to reveal subsurface cultural materials at this undisturbed site. Grasses are the predominant cover of this prehistoric site. EfRi 11 is probably a surface site simply because soil development is minimal. A maximum of 4 cm of soil was noted.

EfRi 56

This prehistoric lithic scatter site is 15 m NW-SE x 50 m NE-SW. Approximately 25 pieces of basalt debitage were recorded at this heritage resource site. EfRi 56 is located on a sparsely vegetated ridge on the

east side of an unnamed tributary of the Bonaparte River (Plate 17, page 38). None of the three shovel tests at this small undisturbed site yielded subsurface cultural deposits. This site is probably confined to the surface due to the lack of soil. See Plate 18, page 38, for a photograph of one of the shovel tests.

EfRi 57

EfRi 57 is a lithic scatter site situated upslope from the previously discussed site. It is located at the edge of the ravine in an open pine and fir forest in a low "saddle" between the ridge on which EfRi 56 is situated and the base of the slope (Plage 17, page 38). It consists of four pieces of basalt debitage in an area 11 m N-S x 15 m E-W (Plate 19, page 38). The three shovel tests were negative at this undisturbed site. Due to their close proximity, sites EfRi 56 and 57 may be related.

EfRi 55

Eight basalt flakes were recorded in an area 35 m N-S x 25 m E-W at EfRi 55. This undisturbed lithic scatter site is located on a high terrace of the Bonaparte River Valley between a grass meadow and an unnamed tributary of the Bonaparte River. Three shovel tests were excavated; none yielded cultural materials. Plate 17, page 38, illustrates the setting of this prehistoric site. As can be seen in the photograph surface exposure was excellent.

EfRi 54

EfRi 54 is situated on a broad, grass covered terrace on the east side of the Bonaparte River Valley. Eight basalt flakes and a basalt corner-notched projectile point were recorded over a large area at this site. The dimensions of this undisturbed site are 75 m NW-SE x 60 m NE-SW. Shovel testing was not conducted because of the excellent exposure and because the site was thought to be off the right-of-way.

EfRi 59

This small lithic scatter site is located on a terrace on the west side of an unnamed tributary of the Bonaparte River in open Ponderosa

pine forest environment. Three basalt flakes were found in an area 6 m x 3 m in size. Two shovel tests were excavated to 20 cm below surface. In both cases, gravels were encountered at about 5 cm. In 2 other areas where the pine needle accumulation was great, 1 m x 1 m areas were scraped to expose the ground surface. Neither of these procedures resulted in the recording of additional artifacts. Plate 20, page 38, illustrates this prehistoric heritage resource.

EfRh 10

This prehistoric lithic scatter site encompasses an area 60 m N-S x 50 m E-W. Approximately 200-250 pieces of basalt debitage and a basalt biface were recorded at the site, situated on the east bank of an unnamed intermittent tributary of Lopez Creek. The majority of these artifacts was noted in a low, wet area 15 m x 20 m in size. Because the site area has been utilized as a log landing, the disturbance is extensive. Five shovel tests were excavated on a ridge in an undisturbed portion of the site; yet none yielded subsurface cultural remains. A photograph of the site is presented in Plate 21, page 39.

EfRh 16

This small, undisturbed heritage resource site was recorded on a grass and sedge covered terrace on the east side of Lopez Creek. Three basalt flakes were noted in an area 20 m N-S x 4 m E-W. Surface exposure as can be seen in Plate 22, page 39, is good. The 3 shovel tests revealed 8 to 20 cm of medium brown silt overlying gravels. Lopez Creek is approximately 300 m west of EfRh 16.

EfRh 12

This prehistoric lithic scatter site encompasses an area 20 m N-S x 60 m E-W on the high terrace to the east of Lopez Creek. Only four basalt flakes were noted over this large undisturbed area. None of the three shovel tests revealed subsurface cultural materials.

EfRh 11

EfRh 11 is located downslope from EfRh 12. Approximately 35 pieces of basalt debitage were recorded at this undisturbed lithic scatter

site. Site dimensions are 50 m N-S x 20 m E-W. Most of the cultural material was noted in an area of concentration 6 m N-S x 7 m E-W. Three shovel tests were excavated; all failed to yield cultural material. As with the other two sites associated with Lopez Creek, surface exposure is good.

EfRh 13

EfRh 13 is a small (10 m x 10 m) lithic scatter site situated on the sideslope above a broad terrace on the east side of an unnamed intermittent tributary of Cache Creek. The site area is covered with grasses and pine trees while the terrace below also has bitteroot. Three basalt flakes were recorded at this undisturbed site.. None of the four shovel tests was productive. Because the site is on a sideslope there is little soil development.

EfRh 15

Two basalt flakes were recorded in an area 1 m x 1 m in size at this small lithic scatter site. EfRh 15 is situated on the sideslope above a broad terrace on the east side of an unnamed intermittent tributary of Cache Creek. Because this site is situated on a sideslope and because of the negative results from the shovel tests at EfRh 13 and 14, shovel testing was not considered warranted at this small site.

EfRh 14

This undisturbed lithic scatter site is situated on a high bedrock-controlled bench to the east above an unnamed intermittent tributary of Cache Creek. Ten basalt flakes and a broken projectile point were recorded at this site in an area 20 m N-S x 20 m E-W. Sites EfRh 13 and 15, situated on the sideslopes below this bench, are possibly related to this prehistoric site. Three shovel tests failed to reveal subsurface artifacts at EfRh 14. Plate 23, page 39, illustrates this site and its commanding view of the slopes and terraces below.

5.2 SITE EVALUATION

Detailed impact assessment involves not only the evaluation of the physical impact of a project on a heritage site but also involves consideration of the significance of the site. Scientific, public, ethnic, historical and economic factors are all considered in the evaluation of site significance (Heritage Conservation Branch 1982). Site significance ratings are generally assigned after evaluative techniques, ie. evaluative testing, surface collection, direct consultation and/or documentary research, are performed (Heritage Conservation Branch 1982:31).

Hydro's commitment to site avoidance precludes the necessity of conducting site evaluation and the subsequent assigning of significance ratings for the majority of the heritage sites. In 2 cases Hydro may not be able to avoid heritage resource sites. Evaluations of these sites, EfRj 30 and EfRh 16, are thus offered.

EfRj 30

To briefly summarize the site description - EfRj 30 is an intact, buried site on the south side of the Maiden Creek Valley. Twelve shovel tests were excavated of which six yielded a total of 14 pieces of basalt detritus. These were found from 2 to 10 cm below surface. An additional basalt flake was noted on the site's surface. Site dimensions are 23 m N-S x 30 m E-W.

EfRj 30 is located on the centre line in an area of dense Douglas fir forest - in an area of merchantable timber. The site is in conflict with clearing operations.

EfRj 30 is not considered to possess public, economic, or ethnic significance. The site is not easily accessible to the public - present access is through the Maiden Creek Ranch, privately owned land, in an area slated for logging. The region has numerous other sites more suitable for interpretive and educational purposes. Lithic scatters abound in the Cache Creek - Ashcroft region, closer to present-use areas. Sites with features are numerous in the Hat Creek region - again many with better public accessiblity. Because of their proximity to the major highways, these sites would have greater economic significance than EfRj 30. In short,

even assuming that EfRj 30 has educational and interpretive capacities, the inaccessibility of the resource to the public renders its public and economic significance nil. A site is considered of ethnic significance if a particular group or community values its importance or if it has ethnographic or ethnohistoric reference. EfRj 30 fulfills none of these criteria.

The evaluation of scientific significance is problematical. Because this heritage resource site is buried, it is largely an unknown entity. The rating of the scientific significance of the site utilizing Heritage Conservation Branch criteria (1982:D1, D2) cannot be realized with the present level of knowledge. It is only through evaluative testing that this information could be gleaned. The excavation of 2 or 3 1 m x 1 m units across the site's surface would enlarge our understanding of the nature and vertical extent of the resource. Additional shovel tests (the frozen ground limited this procedure at the time of the inventory) would refine the definition of the N-S site boundaries. It is through these means that perhaps EfRj 30 could contribute data to further our knowledge of local and regional prehistory.

It is suggested that the purposes of science could be served equally as well by utilizing EfRj 30 for experimentation: to further our knowledge of management options for transmission line projects. By monitoring the site after it has been hand cleared with the logs skidded out on frozen ground and preferably with a cushion of snow present, it will be possible to state whether or not this is a viable option for shallowly buried sites in heavily forested areas. Thus, EfRj 30 is considered to possess scientific significance in that it can be used as an experimental model testing the efficiency of a particular avoidance strategy.

EfRh 16

EfRh 16 consists of 3 flakes on a high terrace on the east side of Lopez Creek. Three shovel tests were excavated, none was positive. Further shovel testing was not deemed necessary because of the excellent surface exposure. Site dimensions are 20 m N-S x 4 m E-W

EfRh 16 is in conflict with tower pad construction.

Because of the extreme sparseness of cultural items at this prehistoric site, EfRh 16 is not considered to be of scientific, public, economic, or ethnic significance. Lithic scatters of this magnitude are found virtually everywhere in the hills above Cache Creek. EfRh 16 is not a unique resource. For example, EfRh 7, 8, 11, and 12 are lithic scatters associated with Lopez Creek. Further archaeological investigation of EfRh 16 would not add appreciably to our knowledge of Interior Plateau prehistory.

5.3 DISCUSSION

Thirty-one sites were investigated during the inventory of this 29 km segment of the proposed 500 kV Kelly Lake - Nicola No. 1 transmission line. This is equivalent to a rough density of 18 sites/km^2.

Of the 31 sites, 22 are prehistoric lithic scatter sites, 1 is a circular cultural depression site, and 3 contain both lithic scatters and depression features. Four sites are isolated artifact occurrences. There is 1 historic site (an additional site,classed above as a lithic scatter and circular cultural depression site,also possesses Historic period materials). The majority (71%) of the sites is classed as lithic scatter. This is very similar to Pokotylo's (1977) data for this region of the Interior Plateau: 73% of the archaeological resource in stratum 1 and 71% in stratum 2. The 1982 inventory of a 20 km segment of the Kelly Lake - Nicola line in Bonaparte - Thompson rivers region resulted in a rough density of 26 sites/km^2 with 90% of the sites classed as lithic scatters (Warner and Magne 1982:19).

Site sizes range from the isolated find sites assigned a size of 1 m^2 to the large 18,750 m^2 site with Prehistoric and Historic period materials and the large 24,700 m^2 lithic scatter recorded by Brolly (1981). Figure 3, page 21, presents a histogram illustrating the relationship between site size and frequency. From this graph it is obvious a preponderance of small sites exists. Twenty of the 31 sites investigated are $<$ 1,000 m^2 in site, 6 are 1,000-3,000 m^2 in size and 5 sites are 3,000 m^2 or greater in size. These differences in areal extent may be due

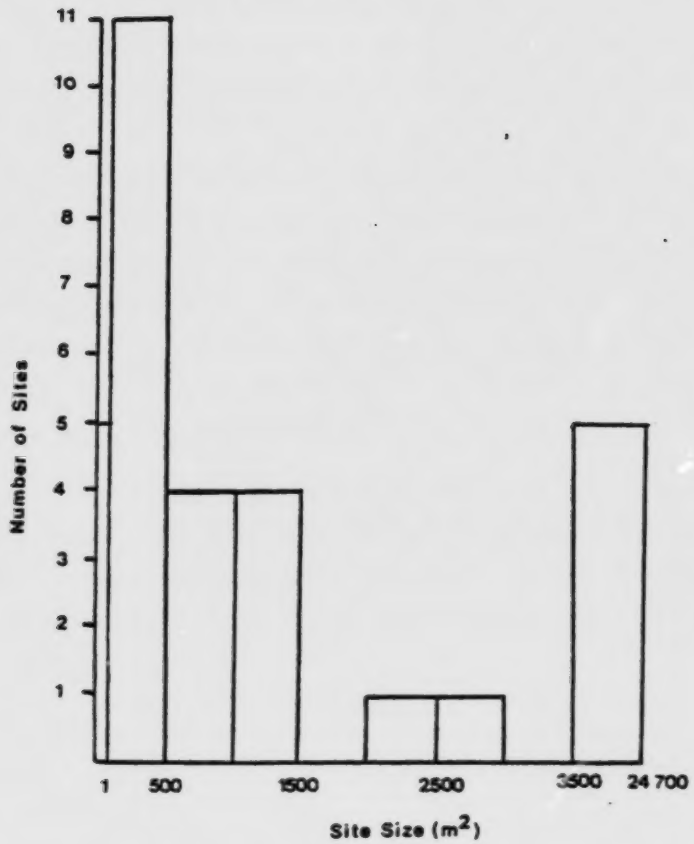

Figure 3: Frequency Distribution of Site Sizes

to differences in site function or may reflect duration or frequency of usage. These latter factors may in turn reflect more favourable geographical locations. The frequency distribution of sites located in 1982 (Warner and Magne 1982) is strikingly similar. Eighteen sites were < 1,000 m^2, 7 sites were 1,000-3,000 m^2 in size and 6 sites were 3,000 m^2 or greater.

Sixteen of the 31 heritage resource sites (52%) are situated within or partially within the right-of-way or clearing boundarie , giving a true site density of 9 sites/km^2. This contrasts with a true density of 22 sites/km^2 (26 sites of the 31 sites from the previous year were within the right-of-way) (Warner and Magne 1981:22). Clearly the Bonaparte-Thompson rivers region has a higher site density.

Examining the percentage of the sites located within the right-of-way, 52% in the present project and 84% during the Bonaparte - Thompson rivers inventory, the usefulness of centre-cutting prior to archaeological survey becomes evident.

6.0 IMPACT ASSESSMENT

6.1 POTENTIAL IMPACTS

Direct and indirect impacts can occur to heritage resource sites as a result of transmission line construction. These can occur through all project phases. During initial centre line survey, direct impact can occur through crossing of site areas by light vehicular traffic. This causes soil compaction, feature disturbance, and artifact displacement. The felling of trees for either helipads or the centre-cut can also disturb surface sites through feature disturbance and artifact displacement. The next stage, right-of-way clearing and concomitant access road construction, is probably the most deleterious to heritage resource values. The use of heavy., tracked vehicles causes damage to sites with both surface and subsurface remains. Stump removal will affect both surface and subsurface sites while the skidding of trees across sites will likely impair surface site values. The chemical content of heritage sites including dateable materials and organic remains is serously disturbed through the

on-site burning of slash. This procedure is also detrimental to historic sites. Access road upgrading or construction usually involves the use of heavy tracked vehicles and therefore can disturb the cultural resource. Tower placement creates subsurface disturbance and so can affect archaeological sites.

After the transmission line is in place, the light vehicular traffic associated with routine maintenance activities can further disrupt site data. Another adverse effect of transmission line construction is visual in nature. Heritage resource values can be impaired through introduction of visual elements out-of-character with the resource and its setting (Heritage Conservation Branch 1982:36). An indirect impact of great consequence is the vandalism of heritage sites, often resulting from new or improved access. This vandalism also occurs in early project stages as a result of greater awareness of the resource.

6.2 SITE SPECIFIC DATA

This section details each site and its relation to the potential zone of impact - in this case the width of the right-of-way or the extent of clearing, whichever is most relevant. Sites will be discussed in the order in which they occur along the proposed route, from west to east.

EfRj 24
: EfRj 24 is approximately 475 m southwest of the centre line or 435 m southwest of the south clearing boundary. Impact will not occur as a result of this project.

EfRj 25
: The site is located approximately 275 m southwest of the centre line or 235 m southwest of the south clearing boundary. Project related impacts will not occur.

EfRj 26
: The northeast corner of this site is 10 m south of the south clearing boundary or 58 m from the centre line (Hydro hub 7348). Impact will not occur as a result of this project.

EfRj 27
: The northeast corner of this site is 38 m south of the south clearing boundary or 82 m south of centre line (hub 7351). Impact will not occur as a result of this project.

EfRj 28

This site is within the zone of project impact on the north side of the centre line towards the north clearing boundary in the vicinity of Hydro hubs 7356 and 7357. Road construction is not permitted in the Maiden Creek crossing area so the major threat to the resource would be the clearing activities. The site is situated in an open fir and pine forest.

EfRj 29

This site is situated within the marked clearing boundaries, 35 m south of the centre line (hub 7357). It is in an area of Douglas fir forest. Clearing would probably heavily damage the site.

EfRj 30

This site is situated on the centre line at B.C. Hydro hub 7360. The site area is within a heavy forest zone that will require clearing for transmission line construction. If not protected, the site would probably be largely destroyed by clearing activities.

EfRi 45

The centre line of the proposed alignment bisects this prehistoric site. The cultural feature is situated 3 m northwest of the centre line at Hydro hub 7112. Right-of-way clearing would impact a large portion of this site which is situated in relatively open forest.

EfRi 46

This prehistoric site is located 9 m south of the south clearing boundary and 45 m south of the centre line. Thus, impact will not occur as a result of this project.

EfRi 47

The transmission line centre line bisects this site which is located in relatively open forest. Three of the four artifact concentrations and two of the three cultural features are within the clearing bounds as are the historic cabin and debris. The historic fence is outside the 50 m wide clearing strip. An existing access road goes through the site, but no upgrading of this facility is planned. Clearing would severely impact a large portion of this site. Tower 26/1 is planned to be erected 26 m east of hub 7118. The cabin is situated 16 m east of this hub so avoidance of this feature should be possible.

EfRi 48

This site is situated about 15 m south of the centre line (between hubs 7118 and 7119). It is thus within the right-of way. An access road is planned to run parallel to the centre line, south of the site. The flagging of the site boundaries should ensure the site is not impacted through this procedure. Clearing would likely impact this small site.

EfRi 49

The northeast corner of the site on the uppermost terrace is 35 m south of the centre line (Hydro hub 1789) and thus a small portion of the site lies within the right-of-way. However, no clearing, road construction, or tower placement is required at this location and thus impact will not occur as a result of this project.

EfRi 58

This historic site is on the north edge of the clearing boundary in the vicinity of hub 1808. Because of the nature of the site (ie., it's extreme visibility) and the fact that only a few trees would need to be cleared, it is expected that impact will not occur as a result of this project. Avoidance should be feasible.

EfRi 50

EfRi 50 is 30 m north of the centre line (hub 1822) and is thus within the right-of-way. However, clearing is not required at this location so project related impacts will not occur.

EfRi 51

This site is situated 100 m south of the centre line (hub 1823) and is thus outside the right-of-way. Impact will not occur as a result of this project.

EfRi 52

This isolated find site is situated well outside (> 500 m) the proposed right-of-way and thus no impact will occur.

EfRi 53

EfRi 53 is situated within the proposed right-of-way, 10 m south of the centre line (east of hub 5649). The site is an isolated artifact occurrence and would likely be disturbed as a result of clearing activities.

EfRi 12

This site is situated approximately 90 m south of the centre line (B.C. Hydro and Power Authority hub 5650) and 60 m south of the south clearing boundary. Thus, no impact from the proposed project will occur.

EfRi 11

The southern portion of this site is 33 m north of the centre line (between hubs 5651 and 5652) and is thus on the edge of the right-of-way boundary. The clearing boundaries do not exceed the right-of-way in this locale so impact will not occur as a result of this project.

EfRi 56

This site is within the proposed right-of-way, south of the centre line (Hydro hub 5655). Clearing activities would impact this small lithic scatter.

EfRi 57

This heritage site is within the right-of-way, near the centre line at hub 5656. Clearing activities would impact the site.

EfRi 55

This site is located several hundred meters south of the centre line and thus will not be impacted as a result of development of the Hat Creek Bypass.

EfRi 54

EfRi 54 is situated about 500 m south of the centre line. No impact will occur as a result of this project.

EfRi 59

This small site is located on the centre line at hub 5669 of the proposed Hat Creek Bypass. It is situated in open forest. Right-of-way clearing would probably disturb this site.

EfRh 10

The southern portion of the site is 50 m north of the centre line (hub 5715) and is thus outside the right-of-way boundary. It is 10 m north of the north clearing boundary. Impacts to the site are not expected to occur as a result of this project.

EfRh 16

This site is situated on the centre line at hub 9751. There is only one tree near the site so clearing should not severely impair site values. EfRh 16 is, however, in conflict with tower 39/2.

EfRh 12

EfRh 12 is 150 m south of the centre line (hub 5733) and thus project related impacts will not occur.

EfRh 11

EfRh 11 is approximately 250 m south of the centre line (hub 5733) and thus project related impacts will not occur.

EfRh 13

The centre line of the proposed transmission line bisects site EfRh 13 and a proposed transmission tower (40/1) is planned for 25 m west of the site area. Site flagging should aid in avoidance of the site during tower placement. Clearing of the few trees could impact the site.

EfRh 15

This site is within the proposed right-of-way on the centre line at hub 5740. Clearing is required in this vicinity and could disturb this small site.

EfRh 14

This site is at the edge of the proposed right-of-way to the north of hub 5741 but no clearing is proposed. A proposed access road will run immediately to the south of this heritage resource. Site flagging should facilitate avoidance. Project related impacts are not expected to occur.

Hat Creek House

The British Columbia Heritage Trust is presently involved in reconstruction of Hat Creek House which is situated near the confluence of Hat Creek and the Bonaparte River on the Cariboo Wagon road. Future plans include an on-site interpretive centre. Plate 24, page 39, illustrates the Stopping House in relation to the proposed Kelly Lake - Nicola alignment. As can be seen, the transmission line will be primarily visible when it climbs the slopes to the east of the Bonaparte River Valley. This will occur in the distance, approximately 3 km away. The crossing of the valley bottom too will be in the distance and will be partially obscured by the vegetation growing on both sides of the river. In conclusion the adverse impact, in this case visual, through introduction of the transmission line to the heritage site environment is considered minimal.

6.3 IMPACT MANAGEMENT PROPOSALS

The proposals presented in this section suggest impact management options that could mitigate project impacts. Actual mitigation measures applied in the field should be negotiated with the Heritage Conservation Branch.

B.C. Hydro and the Heritage Conservation Branch have reached agreement for managing adverse impact on most of the heritage sites in conflict with the proposed Kelly Lake - Nicola transmission line. These sites will be protected through project design modification. Most of the modifications or protective measures will be implemented during the clearing and access road construction phases of the project. B.C. Hydro has agreed to route all access roads around heritage sites and has several clearing options available to them. These are:

Standard A - hand clearing;
Standard C - machine clearing;
Standard F - a combination of A and C in non-critical areas where physical factors dictate the necessity of some Standard A;
Standard B - hand clearing for tower sites with possible rubber tire vehicle assistance for log removal;
Standard D - a specialized Standard C in which the terrain is readied for agricultural use; and
Standard I - brush raking in logged areas, where enough slash is removed to prevent fire hazard.

Because Standard C is cost efficient it is generally the preferred option. Use of Standard A will alleviate, however, many of the concerns over adverse impact on sites during clearing operations. In addition to specifying the use of Standard A in the clearing contract, specialized restrictions may be placed upon the clearing contractor to further minimize adverse impacts to heritage resource sites.

Following are the protective measures to be implemented during the clearing stage at each site. The management options for the six sites recorded during the spring reconnaissance have yet to be approved by the Heritage Conservation Branch. In these instances, Hydro consultant Bjorn Simonsen's recommendations are included.

In the two cases where avoidance strategies may not be feasible the heritage consultant's recommendations are included. These will ultimately require approval by the Heritage Conservation Branch.

EfRj 24
No conflict.

EfRj 25
No conflict.

EfRj 26
No conflict.

EfRj 27
No conflict.

EfRj 28
No heavy vehicular access, no burning on-site and the timber is to be felled away from the site area.

EfRj 29
No heavy vehicular access, Standard A clearing, and all slash is to be manually removed and burned off-site. The area of sensitivity has been extended to include other depressions of unknown origin closer to Maiden Creek.

EfRj 30

The heavy forest cover is problematical at EfRj 30. Hydro has several management options under consideration. The preferred option is to leave all timber unlogged. This may not be possible due to engineering clearance restrictions for the line. It has also been suggested that all trees be manually felled and left on-site without charring. Because of insect concerns this may not be acceptable to Forestry. Standard A clearing with the logs bucked up on-site and manually transported off site is another option though in this case revenue for the merchantable timber would be lost. Standard A clearing with helicopter support is under consideration as is some form of archaeological mitigation, such as test excavation. The final option is that the timber be manually felled in winter and then skidded out over frozen ground preferably with a ground cover of snow. This latter option would be followed up by post-clearing site surveillance by the consultant to test if this is, in fact, a viable avoidance strategy. (This would be conducted in the spring after snow-melt.)

The final option is the course of action recommended by the consultant. Presently, there are 22 sites known from the Maiden Creek Valley (EfRi 38, EfRj 6-11 and 16-30). Of these, 2 (EfRi 38 and EfRj 6) are in the flats associated with the lower valley and span both sides of the creek, 4 are from the south side of the valley (EfRj 21, 22, 23 and 30) and the remaining 16 sites are situated on the north side of the Maiden Creek Valley. The 4 sites on the south side of the valley appear similar on very gross terms - all are buried and intact. Thus it is argued that EfRj 30 is probably not a unique resource and the aims of science could be met through use of the site for experimental purposes; in this case, the testing of the feasibility of winter timber falling and log removal as an avoidance option.

EfRi 45

No heavy vehicular access, Standard A clearing with all refuse to be manually removed and burned off-site. Hydro will extend hand clearing activity east of site boundary to the meadow edge.

EfRi 46

No conflict.

EfRi 47

No heavy vehicular access, Standard A clearing with all refuse to be removed by hand and burned off-site.

EfRi 48

Clearing is not required on the site. All periphery trees will be felled away from the site and skidded in a similar manner. No heavy vehicular access across the site.

EfRi 49

Clearing is not required so there will not be a conflict with the project.

EfRi 58

Because the site is at the extreme edge of the clearing boundary and it is a highly visible historic site, total avoidance is possible.

EfRi 50

Clearing is not required at this isolated find site.

EfRi 51

No conflict.

EfRi 52

No conflict.

EfRi 53

Standard A clearing, no vehicular access.

EfRi 12

No conflict.

EfRi 11

No conflict.

EfRi 56

No heavy vehicular access, light vehicles must also take care in driving up the slope to the site, Standard A clearing with all slash to be manually removed and burned off-site.

EfRi 57

The same conditions and precautions as apply to EfRi 56.

EfRi 55

No conflict.

EfRi 54

No conflict.

EfRh 59

No vehicular access, Standard A clearing, fall timber away from site and manually remove it for off-site burning. (Not finalized)

EfRh 10

No conflict.

EfRh 16

No heavy vehicular traffic, proposed access road to be re-routed around site, hand removal of the one tree near the site. Subsequent to the formulating of the avoidance measure by Simonsen, it has been learned that EfRh 16 is also in conflict with a tower.

Due to the limited artifact content, this site is considered to be of low potential in terms of heritage resource significance. Thus, the consultant recommends the project proponent be allowed to proceed with the development without concern for this heritage resource site.

EfRh 12
No conflict.

EfRh 11
No conflict.

EfRh 13
Only two or three trees require removal using Standard A. These trees are to be felled upslope and skidded in a similar manner. No vehicular traffic or equipment will be permitted on-site.

EfRh 15
No vehicular access and Standard A clearing. Trees may be skidded away from site as long as branches are removed.

EfRh 14
No conflict.

6.4 SUMMARY

Sixteen of the heritage resource sites are situated within the right-of-way or clearing boundaries. For site avoidance, fourteen of these will require protective measures during the clearing operations. These sites are:

EfRj 28, 29, 30
EfRi 45, 47, 48, 58, 53, 56, 57, 59
EfRh 16, 13, and 15.

Two sites, although within or partially within the right-of-way are situated in areas where clearing is not required. These sites are EfRi 49 and 50.

EfRh 16 is also in conflict with tower pad construction and avoidance could thus only be accomplished through repositioning of the structure.

Two possible unavoidable conflicts exist. It may not be feasible for Hydro to avoid EfRj 30 during clearing operations. If not, it is recommended the site be winter logged with the trees skidded out over frozen ground. This would be followed up by site surveillance by the heritage consultant.

Because of the limited potential for future research offered by EfRh 16 it is recommended that Hydro be allowed to proceed with construction of the Kelly Lake - Nicola transmission line without further regard for this resource.

7.0 GENERAL RECOMMENDATIONS

Several avoidance and protective strategies have been proposed as management options for this project. With the present level of knowledge all that can be done to ensure these approaches work has been completed. However, because the avoidance and protective strategies have previously not been conducted to this magnitude it is suggested that follow-up surveillance be conducted by the consultant after completion of construction. This would be a check if this approach is a viable management option. It may be discovered, for instance, these measures are successful only on certain site types or in certain micro-environments. This surveillance would ensure that precedents once set satisfy the aim of site protection.

It should be noted that even this post-construction surveillance will not be able to assess all impacts. Ideally several sites should have been mapped with all artifact locations noted precisely. Artifact displacement could have been more accurately determined through this technique. Soil compaction studies would also have been a useful adjunct.

On a more specific basis the consultant recommends that shovel testing as an aid in locating sites in the Ponderosa pine - bunchgrass zone is an unproductive procedure because the soils are thin and well-exposed. Where surface litter accumulations of needles impede this viewing of the ground surface, surface clearing is suggested. The routine shovel testing of sites during the inventory in this region should also be re-examined. Perhaps this subsurface testing should be at the discretion of the project director. It is suggested the time could be more profitably spent mapping the artifacts *in situ*.

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PLATES 1 - 4

Plate 1

A view to the east of lithic scatter site EfRj 28. One of the game trails is clearly visible in the centre-ground. Surface exposure was excellent at this site.

Plate 2

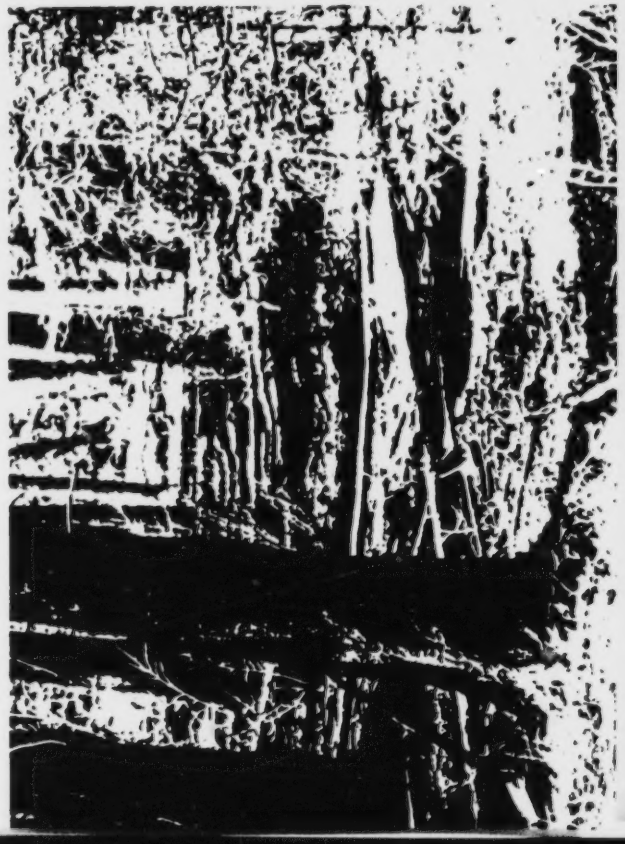
Two areas within the cultural feature at EfRj 29 were tested by trowel to a depth of 4 cm where frozen ground was encountered. This photograph illustrates one of the areas. Fire-cracked rock, often associated with roasting pits, is evident.

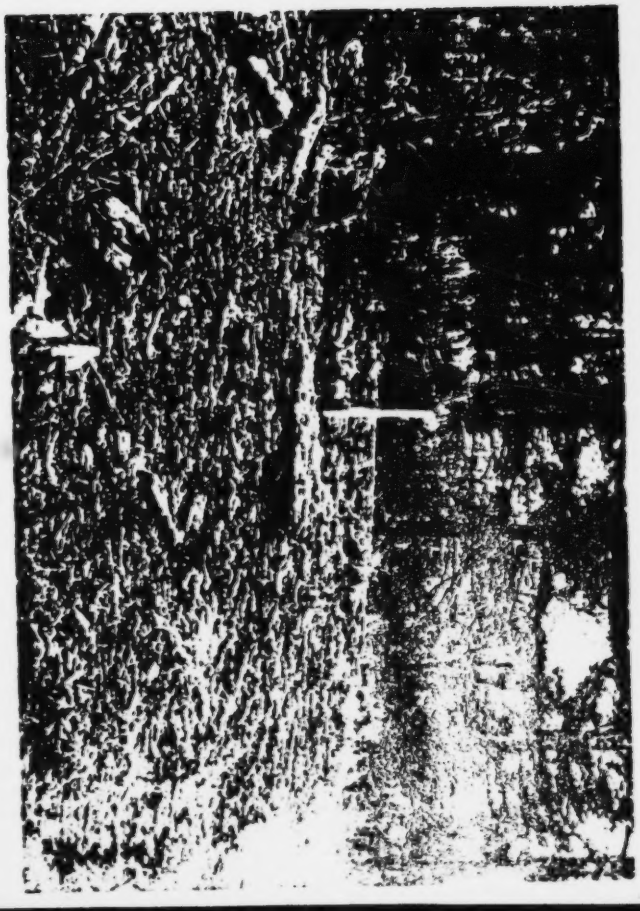
Plate 3

A view to the west of EfRj 30. This is a buried site located on the south side of the Maiden Creek Valley. The orange flagging is above shovel test #1 where a basalt core fragment was recovered.

Plate 4

The north wall of shovel test #10 at EfRj 30 is illustrated in this photograph. The trowel points to an in situ basalt flake. Note the ice at the bottom of the litter mat.





PLATES 5 - 8

Plate 5

This photograph is a general view to the northwest of EfRi 45. It was taken from the south boundary of this prehistoric site. Below the break-in-slope is a large meadow.

Plate 6

A view to the northwest from the centre line of the circular cultural depression at EfRi 45. The stake is in the centre of this feature.

Plate 7

Two of the circular cultural depressions at EfRi 47 are illustrated in this plate; both are flagged with orange tape. Circular depression #1 is in the right middle-ground and CCD #2 is at the left.

Plate 8

A view to the east of the historic log fence at EfRi 47.

PLATES 9 - 12

Plate 9

The historic cabin remains recorded in 1983 at the eastern edge of site EfRi 47 are illustrated. View to the southeast.

Plate 10

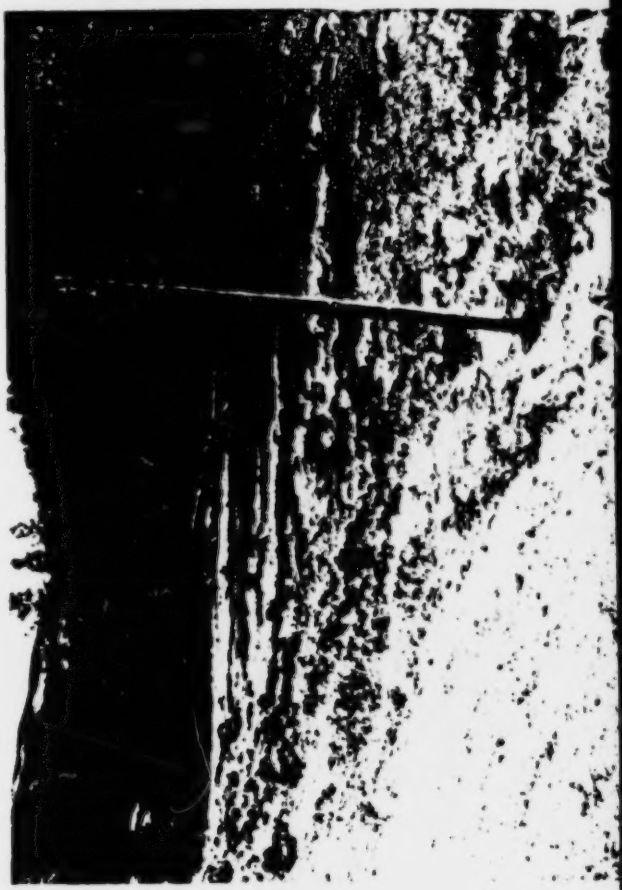
This photograph is a close-up of the concentration of historic artifacts located to the west of the cabin remains at EfRi 47. Two basalt flakes - indicative of the prehistoric utilization of the site area - were noted in the centre of this concentration.

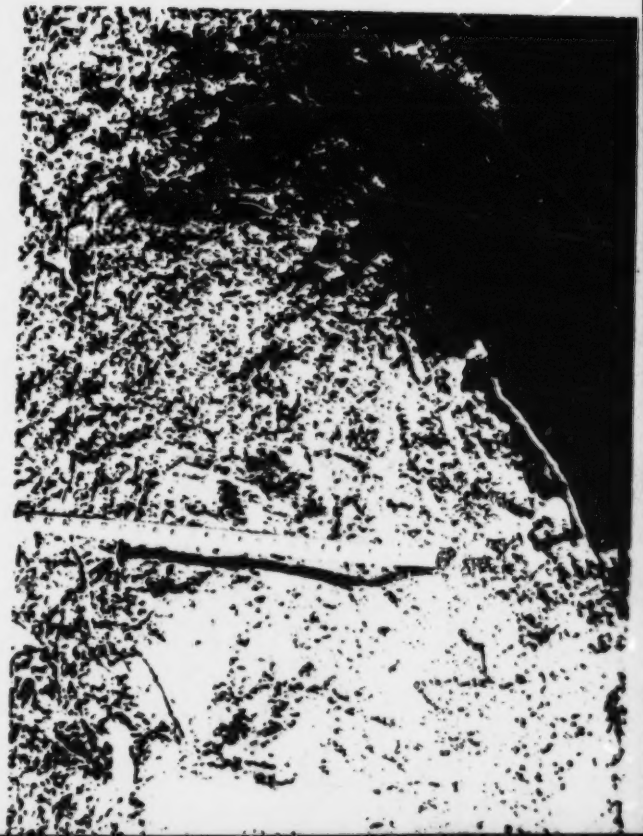
Plate 11

The east wall of a shovel test at EfRi 48 is shown. This test was situated near the site centre. Subsurface artifacts were not recovered from this small lithic scatter site.

Plate 12

A view to the east of the highest terrace at EfRi 49. This is a large lithic scatter site associated with Hat Creek. Highway 12 is to the left of the photograph.





PLATES 13 - 16

Plate 13

The historic feature recorded at EfRi 58 is shown in this photograph. It is thought to be a portion of a wagon. This wagon may be of interest to the Heritage Trust which plans on interpretive work at Hat Creek House.

Plate 14

A close-up of the broken, side-notched, basalt projectile point located at EfRi 53.

Plate 15

In 1982, 20 basalt flakes were observed on this broad terrace with a commanding view of the Bonaparte River Valley. EfRi 12 is currently undisturbed. This photograph presents a view to the south.

Plate 16

A view to the northeast of EfRi 11. Approximately 30 pieces of basalt debitage were recorded at this site which is situated at the edge of the terrace high above an unnamed tributary of the Bonaparte River.

PLATES 17 - 20

Plate 17

A view to the north from lithic scatter site EfRi 54. The locations of prehistoric sites EfRi 55, 56 and 57 are shown. All are lithic scatter sites.

Plate 18

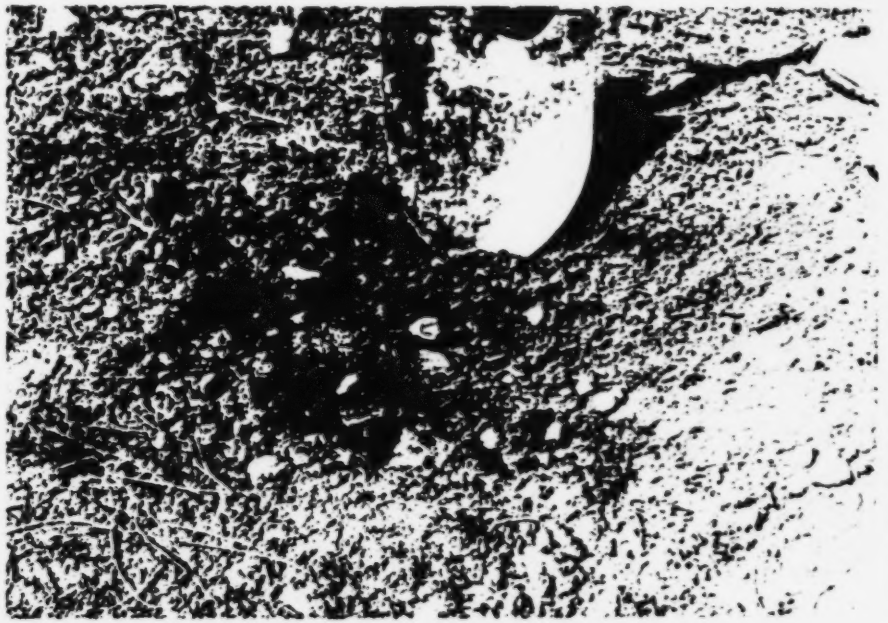
The excellent surface exposure coupled with the lack of soil so typical of this region is illustrated in this photograph. This is a shovel test at EfRi 56, a lithic scatter site.

Plate 19

This photograph which was taken from the knoll at EfRi 56 shows Hansen shovel testing EfRi 57.

Plate 20

A view to the east of EfRi 59, a small site where 3 basalt flakes were recorded. The yellow flagging marks the locations of the artifacts. The orange stake marks the Kelly Lake X Nicola t/l centre-line.



PLATES 21 - 24

Plate 21

A view to the southeast of EfRh 10 a rich lithic scatter situated on the east bank of an unnamed tributary of Lopez Creek. The helicopter is in the middle of the area of artifact concentration. Prior use of the area as a log landing has disturbed this heritage site.

Plate 22

This photograph illustrates the site area of EfRh 16. This is a small (20 m N-S x 4 m E-W) lithic scatter site located on the east bank of Lopez Creek. The orange flagging marks the location of a basalt flake; the orange stake, the transmission line centre line. Warner is shown examining the backdirt of shovel test #1.

Plate 23

A view to the west-northwest of EfRh 14, a lithic scatter site situated on a high bench above an unnamed tributary of Cache Creek. A basalt projectile point and 10 flakes were recorded in an area 20 m x 20 m. Note the good surface visibility at this prehistoric site.

Plate 24

Hat Creek House can be seen at the left of this photograph. The arrow indicates where the Kelly Lake - Nicola transmission line will be visible in the far distance on the east side of the Bonaparte River Valley.

HERITAGE RESOURCE INVENTORY AND IMPACT ASSESSMENT

KELLY LAKE - NICOLA TRANSMISSION LINE,

HAT CREEK BYPASS SEGMENT, SOUTH CENTRAL B.C.

M.O. 1982-3

Volume 2

APPENDICES

Appendix 1

SITE FORMS

Additional Information

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRj—24

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s)

3. Site name(s)

4. Legal

5. (a) Location

(b) Access

6. Administrative jurisdiction (a) Regional Dist.

(b) Forest/Grazing Dist. (c) Highways Dist. ☐—☐☐

(d) Park Dist. ☐—☐ (e) Resource Management Reg.

7. Lat. 50° 56′ 14″ N. 8. Long. 121° 34′ 42″ W.

9. UTM 10U EM/E 997 N 435 10. Air photo

11. Map (a) ☐☐☐ ☐/☐☐☐ (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor (b) major

13. Elevation (a) 1219 m ASL (b)

14. Cultural affiliation (a) (b)

15. Site type

16. Dimensions (a) exact m – × m – (b) estimated

(c) original

17. Condition (a) present ..... % intact (b) future .....

18. Priority .....

19. Detailed information (a) Vegetation on site .....

(b) Major vegetation .....

(c) Cultural matrix .....

(d) Depth of cultural matrix .....

(e) Non-cultural matrix .....

(f) Water source .....

20. Known finds and present location .....

21. Photo record .....

22. Published and unpublished references (a) .....

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd.)

23. Site age and/or date (a) ..... ☐ absolute ☐ relative

(b) Source .....

24. Owner/Tenant .....

25. (a) Informant .....

(b) Observer Date ___ ___. 19 ___

(c) Recorder Date ___ ___. 19 ___

(d) Revisitor Jane Warner, Bob Hansen Date Oct 83. 19 83

Date ___ ___. 19 ___

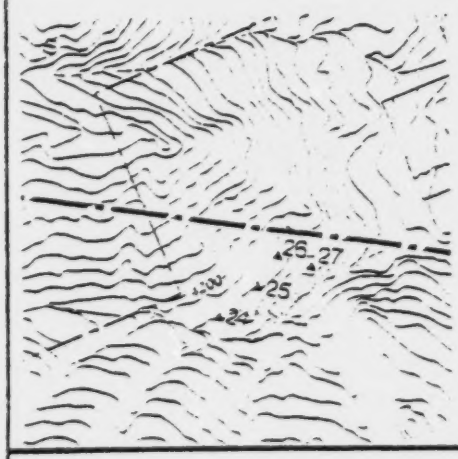
26. Remarks The location as originally shown placed the site close to the proposed B.C. Hydro Kelly Lake X Nicola t/l r-o-w. In conjunction with the survey of this t/l, the site was re-examined and flagged for avoidance. With the aid of Hydro survey crews, EfRj 24 is now more accurately plotted.

	E	N
UTM =	599,721	5,643,687

It is in no danger of impact through construction of this line.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRj 24



EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO. _____

LATITUDE 50° 56' 15" N

LONGITUDE 121° 34' 42" W

UTM GRID REF. 10UEM 997136

TRUE ☐ MAGNETIC ☐

DECLINATION USED _____

DATE _____

SCALE: 1 CM. = ____ M.

0

Additional Information

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRj — 25

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s)

3. Site name(s)

4. Legal

5. (a) Location

(b) Access

6. Administrative jurisdiction (a) Regional Dist.

(b) Forest/Grazing Dist. (c) Highways Dist. ☐—☐

(d) Park Dist. ☐—☐ (e) Resource Management Reg.

7. Lat. 50° 56' 19" N. 8. Long. 121° 34' 31" W.

9. UTM 10 U FM/E 001 N 437 10. Air photo

11. Map (a) ☐☐☐ ☐/☐☐☐ (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor (b) major

13. Elevation (a) 1219 m ASL (b)

14. Cultural affiliation (a) (b)

15. Site type

16. Dimensions (a) exact m – × m – (b) estimated

(c) original

17. Condition (a) present ..... % intact (b) future .....

18. Priority .....

19. Detailed information (a) Vegetation on site .....

(b) Major vegetation .....

(c) Cultural matrix .....

(d) Depth of cultural matrix .....

(e) Non-cultural matrix .....

(f) Water source .....

20. Known finds and present location .....

21. Photo record .....

22. Published and unpublished references (a) .....

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) ..... ☐ absolute ☐ relative

(b) Source .....

24. Owner/Tenant .....

25. (a) Informant .....

(b) Observer ..... Date ___ ___ . 19 ___

(c) Recorder ..... Date ___ ___ . 19 ___

(d) Revisitor Jane Warner, Bob Hansen Date Oct 29 . 19 82

Date ___ ___ . 19 ___

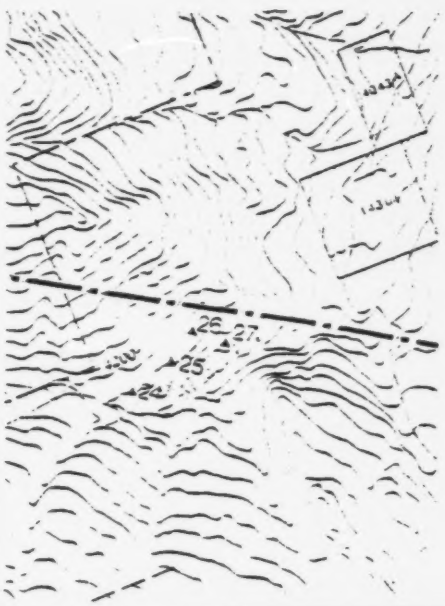
26. Remarks The location as originally shown placed the site close to the proposed B.C. Hydro Kelly Lake X Nicola t/l r-o-w. In conjunction with the survey of this t/l, the site was re-examined and flagged for avoidance. With the aid of Hydro survey crews, EfRj 25 is now more accurately plotted.

	N	E
UTM =	5,643,788	600,126

It is in no danger of impact through construction of this line.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 25



EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO.

LATITUDE 50° 56' 19" N

LONGITUDE 121° 34' 31" W

UTM GRID REF. 10UFM 001437

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE

SCALE: 1 CM. = ____ M.

0

Additional Information

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi—26

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s)

3. Site name(s)

4. Legal

5. (a) Location

(b) Access

6. Administrative jurisdiction (a) Regional Dist.

(b) Forest/Grazing Dist. (c) Highways Dist. ☐—☐☐

(d) Park Dist. ☐—☐☐ (e) Resource Management Reg.

7. Lat. 50° 56′ 26″ N. 8. Long. 121° 34′ 23″ W.

9. UTM 10U FM/E 003 N 439 10. Air photo

11. Map (a) ☐☐☐ ☐/☐☐☐ (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor (b) major

13. Elevation (a) 1227 m ASL (b)

14. Cultural affiliation (a) (b)

15. Site type

16. Dimensions (a) exact m – × m – (b) estimated

(c) original

17. Condition (a) present ..... % intact (b) future .....

18. Priority .....

19. Detailed information (a) Vegetation on site .....

(b) Major vegetation .....

(c) Cultural matrix .....

(d) Depth of cultural matrix .....

(e) Non-cultural matrix .....

(f) Water source .....

20. Known finds and present location .....

21. Photo record .....

22. Published and unpublished references (a) .....

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) ..... ☐ absolute ☐ relative

(b) Source .....

24. Owner/Tenant .....

25. (a) Informant .....

(b) Observer Date ___ ___ . 19 ___

(c) Recorder Date ___ ___ . 19 ___

(d) Revisitor Jane Warner, Bob Hansen Date 01 04 26 . 19 82

Date ___ ___ . 19 ___

26. Remarks The location as originally shown placed the site close to the proposed B.C. Hydro Kelly Lake X Nicola t/l r-o-w. In conjunction with the survey of this t/l, the site was re-examined and flagged for avoidance. With the aid of Hydro survey crews, EfRj 26 is now more accurately plotted.

	E	N
UTM =	600,323	5,543,926

It is in no danger of impact through construction of this line.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EFD: 26

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO.

LATITUDE 50° 56' 25" N

LONGITUDE 121° 34' 23" W

UTM GRID REF. 10U FM 103 30

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE

SCALE: 1 CM. = ____ M.

0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING Additional Information

1. Site No. EfRj — 27

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s)

3. Site name(s)

4. Legal

5. (a) Location

(b) Access

6. Administrative jurisdiction (a) Regional Dist.

(b) Forest/Grazing Dist. (c) Highways Dist. ☐—☐☐

(d) Park Dist. ☐—☐ (e) Resource Management Reg.

7. Lat. 50° 56′ 19″ N. 8. Long. 121° 34′ 13″ W.

9. UTM 10 U 5M/E 005 N 437 10. Air photo

11. Map (a) ☐☐☐ ☐/☐☐☐ (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor (b) major

13. Elevation (a) 1173 m ASL (b)

14. Cultural affiliation (a) (b)

15. Site type

16. Dimensions (a) exact m – × m – (b) estimated

(c) original

17. Condition (a) present ..... % intact (b) future .....

18. Priority .....

19. Detailed information (a) Vegetation on site .....

(b) Major vegetation .....

(c) Cultural matrix .....

(d) Depth of cultural matrix .....

(e) Non-cultural matrix .....

(f) Water source .....

20. Known finds and present location .....

21. Photo record .....

22. Published and unpublished references (a) .....

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd) .....

23. Site age and/or date (a) ..... ☐ absolute ☐ relative

(b) Source .....

24. Owner/Tenant .....

25. (a) Informant

(b) Observer Date ___ ___ . 19 ___

(c) Recorder Date ___ ___ . 19 ___

(d) Revisitor Jane Warner, Bob Hansen Date Oct 29 . 19 82

Date ___ ___ . 19 ___

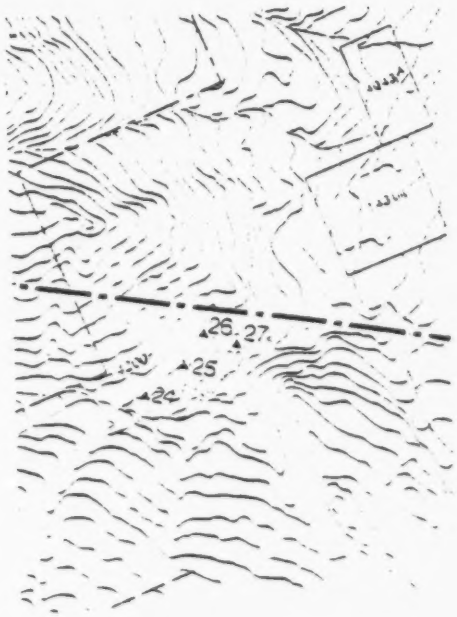
26. Remarks The location as originally shown placed the site close to the proposed B.C. Hydro Kelly Lake X Nicola t/l r-o-w. In conjunction with the survey of this t/l, the site was re-examined and flagged for avoidance. With the aid of Hydro survey crews, EfRj 27 is now more accurately plotted.

	E	N
UTM =	600, 568	5,643,767

It is in no danger of impact through construction of this line.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRj 27



EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO. _____

LATITUDE 50° 56' 19" N

LONGITUDE 121° 34' 19" W

UTM GRID REF. 10UFM 006-37

TRUE ☐ MAGNETIC ☐

DECLINATION USED _____

DATE _____

SCALE: 1 CM. = _____ M.

N

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRj — 28

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRj Tc

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, Tp 23, R26, W6M

5. (a) Location Site is located between Clinton and Cache Creek on the north side of the Maiden Creek Valley, approximately 6 km up from Hwy. 97.

(b) Access Travel north along Hwy. 97 from Cache Creek for 3.3 km past the Loon Lake turnoff to a dirt road controlled by the Maiden Creek Ranch. Turn left and continue on this road for 6.9 km to fork in road. Keep left and proceed another 0.2 km to fork in road. Take road on the right and proceed for 1.1 km to centre line crossing of the road. Site is downslope approximately at the halfway point between the road and the creek. This site is located at the north edge of the r-o-w on a ridge whose surface has been well-exposed by trails.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Cariboo (c) Highways Dist. 2—27. 100 Mile House

(d) Park Dist. 2—3. Lillooet (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 56′ 18″ N. 8. Long. 121° 33′ 47″ W.

9. UTM 10U FM/E 009 N 438 10. Air photo B.C. 80128:251 (1980)

11. Map (a) 92 I 13 (b) B.C.H. & P. A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Maiden Creek (b) major 8, Thompson

13. Elevation (a) 1112 m ASL (b) Not recorded

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 30 m E-W × 8 m N-S (b) estimated Same

(c) original Unknown

17. Condition (a) present 75 % intact (b) future Site is within clearing boundary of B.C.H. & P.A. Kelly Lake X Nicola t/l 18. Priority

19. Detailed information (a) Vegetation on site Ponderosa pine, Douglas fir, bunchgrass, rose, juniper

(b) Major vegetation Interior Douglas fir (Krajina)

(c) Cultural matrix Silt

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Silt, rocks

(f) Water source Maiden Creek approx. 100 m south and 50 m below

20. Known finds and present location

1 basalt core fragment and 12 basalt flakes were observed in 1983 and left in situ.

21. Photo record 701:A:19

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3 Heritage Resource Inventory and Impact (cont'd)

23. Site age and or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner Tenant Unknown

25. (a) Informant None

(b) Observer M. Magne, J. Warner Date A U G 1 3 . 19 8 3

(c) Recorder M. Magne, J. Warner Date A U G ___ . 19 8 3

(d) Revisitor Date ___ ___ . 19 ___

Date ___ ___ . 19 ___

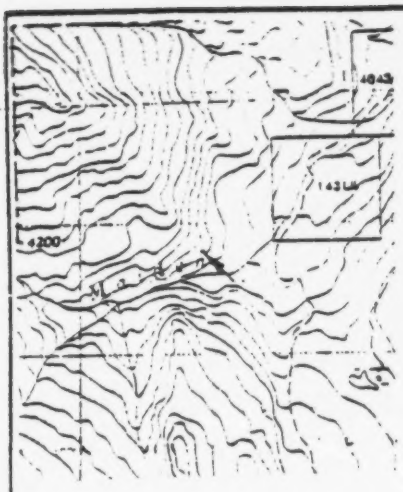
26. Remarks

The surface of this site is well-exposed by game trails.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment.

B.C. Hydro, Vancouver.

SITE NO. EfRi 28



north edge of clearing bdry

many young Douglas fir trees

very steep ravine

open Ponderosa pine forest

To Hwy 7357

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

large P. pine stump

F basalt flake

C basalt core fragment

game trail

juniper

1:50,000 MAP NO. 92I/13

LATITUDE 50° 56' 18" N

LONGITUDE 120° 33' 17" W

UTM GRID REF. 10UCM 200 133

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE April 1982

SCALE: 1 CM. = 2 M.

0 2 1 5 3 10

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRj — 29

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRj Td

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, Tp 23, R26, W6M

5. (a) Location Site is located between Clinton and Cache Creek on the north side of the Maiden Creek Valley approximately 6 km up the creek from Hwy. 97

(b) Access Travel north along Hwy 97 from Cache Creek for 3.3 km past the Loon Lake turnoff to a dirt road controlled by the Maiden Creek Ranch. Turn left and continue on this road for 6.9 km to fork in road. Keep left and proceed another 0.2 km to fork in road. Take road on the right and proceed for 1.1 km to centre line crossing of the road. Site is downslope about 50 m from Maiden Creek.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Cariboo (c) Highways Dist. 27 — 100 Mile House

(d) Park Dist. 23 — Lillooet (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 56′ 14″ N. 8. Long. 121° 33′ 42″ W.

9. UTM 10U FM E 010 N 437 10. Air photo Unknown

11. Map (a) 92 I 13 (b) B.C.H. & P.A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Maiden Creek (b) major 8, Thompson

13. Elevation (a) 1066 m ASL (b) 15 m above Maiden Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type Circular cultural depression

16. Dimensions (a) exact 6.0m N-S × 8.0 m E-W (b) estimated N/A

(c) original N/A

V80-121

17. Condition (a) present 100 % intact (b) future Site is within clearing boundaries B.C. H. & P.A. Kelly Lake x Nicola t/l 18. Priority

19. Detailed information (a) Vegetation on site Grasses, kinnikinnick, Douglas fir

(b) Major vegetation Interior Dougls fir (Krajina)

(c) Cultural matrix Unknown

(d) Depth of cultural matrix Unknown

(e) Non-cultural matrix Dark brown humic layer to 3 cm, medium brown silty clay to 13 cm, rocks below

(f) Water source Maiden Creek 50 m south, 15 m below

20. Known finds and present location

1 basalt flake was observed in 1983 on the rim of this feature and was left in situ.

1 circular cultural depression was noted.

Maximum dimensions (outside rim to junction with slope)

5.8 m (N-S) x 7.7 m (E-W) East rim is 2.7 m thick; south rim is 2 m thick; at west and north the feature blends into natural slope. Depth varies to a maximum of 30 cm. The feature appears rock lined.

21. Photo record 701:A:20-22

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3 Heritage Resource Inventory and Impact (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant N/A

(b) Observer Jane Warner, Martin Magne Date April 13, 19 83

(c) Recorder Jane Warner Date April 14, 19 83

(d) Revisitor Date ____ ____, 19 ____

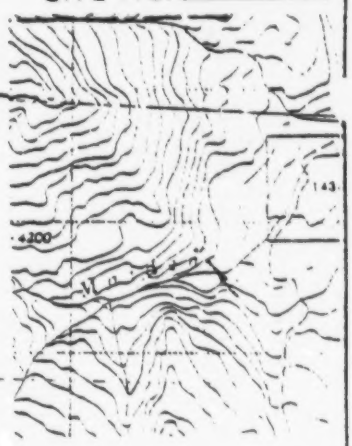
Date ____ ____, 19 ____

26. Remarks

5 shovel tests were excavated outside the feature none yielded artifactual materials. The surface litter was scraped in 2 areas within the feature revealing numerous rocks possibly firecracked. Shovel tests couldn't be excavated in the feature due to frozen ground. Although there are numerous tree falls and depressions of unknown origin throughout the area, this particular depression was recorded as a site because of its seeming regularity of outline and the presence of the flake. It is recognized the latter could be fortuituous especially in this valley where basalt flakage is found in every conceivable locale regardless of degree of slope.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l. Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRj 29



℄ Kelly Lake x Nicola t/l

hub 7357

slope

south edge clearing

bdry

open Douglas fir forest

Maiden Creek

EXTENT OF SITE

BUILDING

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

5□ shovel test

S□ scraped area

● rock

F basalt flake

== game trail

⊖ circular cultural depression

1:50,000 MAP NO. 92I/13

LATITUDE 50° 55' 11" N

LONGITUDE 121° 33' 12" W

UTM GRID REF. 10UEM 010 137

TRUE □ MAGNETIC ☒

DECLINATION USED

DATE April 1982

SCALE: 1 CM. = 5 M.

0 10 20

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 30

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRj Te

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T23, R26, W6M

5. (a) Location Site is situated between Clinton and Cache Creek on the first terrace on the south side of the Maiden Creek Valley, approximately 6 km up the creek from Hwy 97.

(b) Access Travel north along Hwy 97 from Cache Creek for 3.3 km past the Loon Lake turnoff to a dirt road controlled by the Maiden Creek Ranch. Turn left and continue on this road for 6.9 km to fork in road. Keep left and proceed another 0.2 km to fork in road. Keep left and proceed for another 1.1 km to intersection with west trending road. Park truck and walk 275 m to where the centre line crosses the dirt road. Site is north of the road at this point.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Cariboo (c) Highways Dist. 2—27. 100 Mile House

(d) Park Dist. 2—3. Lillooet (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 56′ 10″ N. 8. Long. 121° 33′ 29″ W.

9. UTM 10U FM/E 012 N 436 10. Air photo B.C. 80128:251 (1980)

11. Map (a) 92I/13 (b) B.C.H & P.A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Maiden Creek (b) major 8, Thompson

13. Elevation (a) 1060 m ASL (b) 20 m above Maiden Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 23 m N–S × 30 m E – W (b) estimated Unknown

(c) original N/A

M50-121

26. Remarks

12 shovel tests were excavated to varying depths largely dependent upon where frozen soil was encountered. Most artifacts found in these tests were in the humic level. 6 of the tests were positive. Positive tests are listed below.

#1 1 core fragment 2 cm b.s.

#3 2 flakes 2 cm b.s.

#6 1 flake 4 cm b.s.

#7 1 flake 3 cm b.s.

#8 2 flakes 3 cm b.s.

#10 7 flakes 2-10 cm b.s.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l. Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

26. Remarks

12 shovel tests were excavated to varying depths largely dependent upon where frozen soil was encountered. Most artifacts found in these tests were in the humic level. 6 of the tests were positive. Positive tests are listed below.

#1 1 core fragment 2 cm b.s.

#3 2 flakes 2 cm b.s.

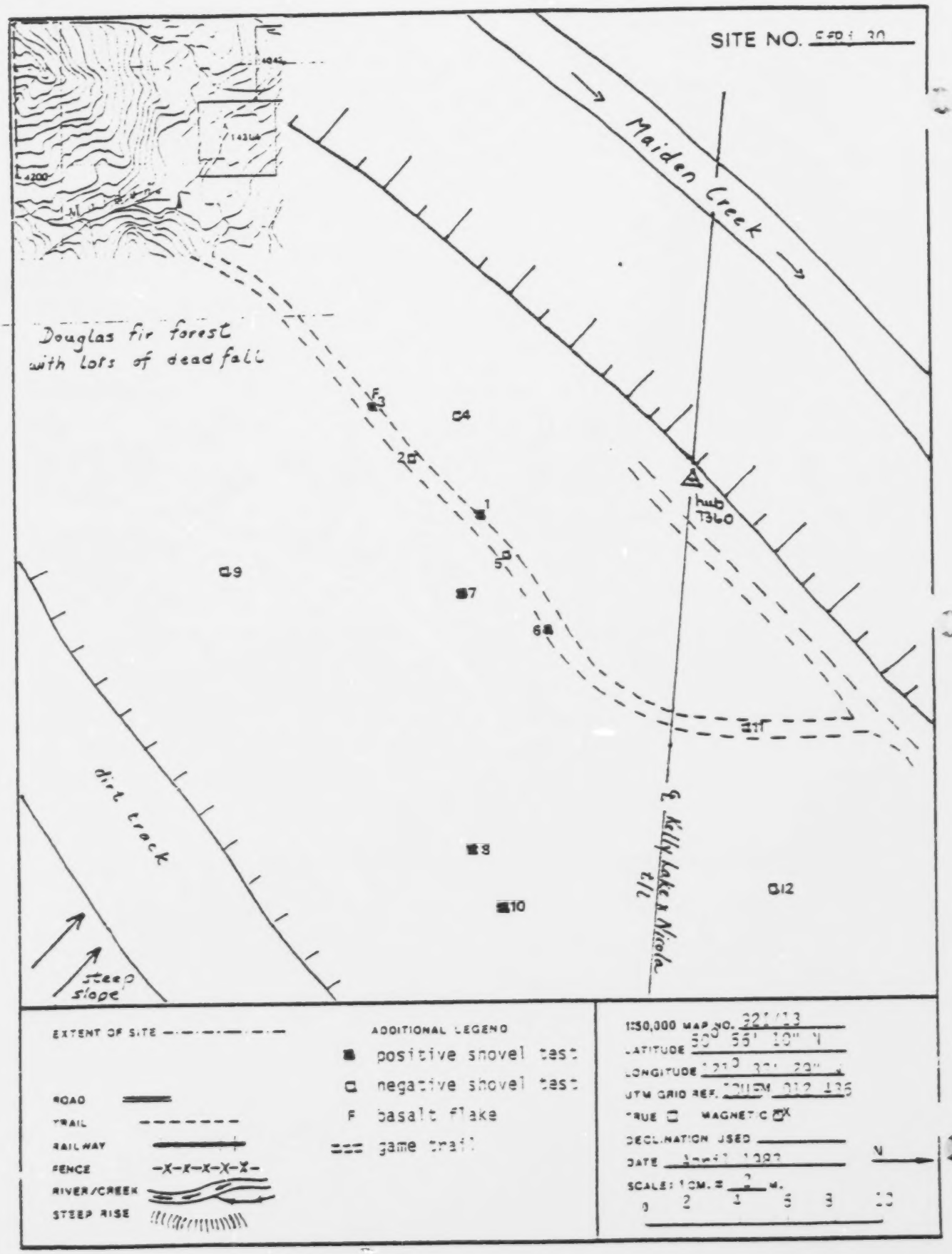
#6 1 flake 4 cm b.s.

#7 1 flake 3 cm b.s.

#8 2 flakes 3 cm b.s.

#10 7 flakes 2-10 cm b.s.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l. Hat Creek Bypass Segment. B.C. Hydro, Vancouver.


SITE NO. EdDi 30
Maiden Creek
Douglas fir forest with lots of dead fall
hub T360
dirt track
steep slope
Kelly Lake x Nicola rd
EXTENT OF SITE
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE
ADDITIONAL LEGEND
positive shovel test
negative shovel test
basalt flake
game trail
1:50,000 MAP NO. 92I/13
LATITUDE 50° 55' 10" N
LONGITUDE 121° 31' 28" W
UTM GRID REF. 10UEM 012 135
TRUE ☐ MAGNETIC ☒
DECLINATION USED
DATE April 1982
SCALE: 1 CM. = 2 M.
0 2 4 6 8 10
N

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 45

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T7

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S30, T22, R25, W6M

5. (a) Location Site is located north of the Bonaparte Indian Reserve 2 and Highway 12 and west of the major access road through the Indian Reserve. Site is located on a high ridge overlooking a grass meadow associated with an unnamed tributary of Hat Creek.

(b) Access From the junction of Highways 97 and 12, proceed west on Highway 12 for 3.9 km. Turn north onto dirt road through Bonaparte I.R. 2. The site centre is approximately 100 m west of the west edge of the meadow on a high ridge.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—216. Lillooet

(d) Park Dist. 2—5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 53' 58" N. 8. Long. 121° 27' 48" W.

9. UTM 10U FM/E 080 N 395 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. SL87-TQ7-X3M

12. Drainage (a) minor Hat Creek (b) major S. Thompson

13. Elevation (a) 724 m ASL (b) Not recorded

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter; Circular cultural depression

16. Dimensions (a) exact 50 m N-S × 110m E-W (b) estimated Unknown

(c) original N/A

17. Condition (a) present 95 % intact (b) future Site is within proposed B.C. Hydro Kelly Lake

X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, rabbitbush, Ponderosa pines, juniper

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix Unknown

(e) Non-cultural matrix Unknown

(f) Water source None nearby

20. Known finds and present location

Approximately 40-50 pieces of basalt debitage and a basalt biface were observed in 1982 and left in situ. At the east end of the site, a circular cultural depression was recorded.

21. Photo record ARESCO 1684 R2:22-25; R3:0,3

22. Published and unpublished references (a) None

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 21 19 82

(c) Recorder Jane Warner Date Dec 15 19 82

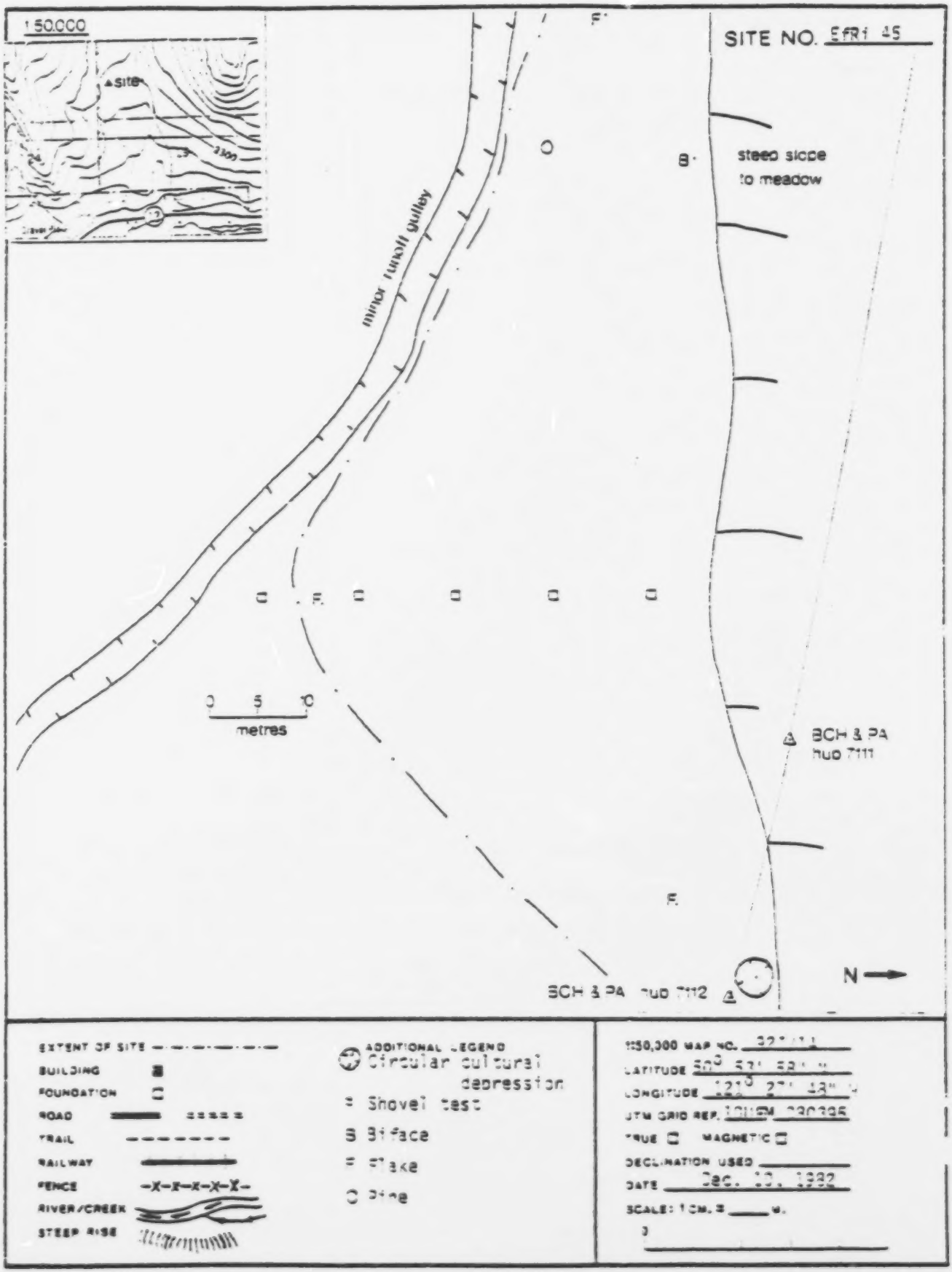
(d) Revisitor Date ___ ___ 19 ___

Date ___ ___ 19 ___

26. Remarks 5 shovel tests were excavated; none yielded subsurface cultural deposits.

The circular cultural depression is approximately 4 m x 4 m with a depth of 5 cm.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.


1:50,000
Site
3300
SITE NO. EfRi 45
steep slope to meadow
minor runoff gulley
F
B
0 5 10
metres
BCH & PA
hud 7111
BCH & PA hud 7112
N
EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE
ADDITIONAL LEGEND
Circular cultural depression
Shovel test
B Biface
F Flake
C Core
1:50,000 MAP NO.
LATITUDE
LONGITUDE
UTM GRID REF.
TRUE
MAGNETIC
DECLINATION USED
DATE
SCALE: 1 CM. =
M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 46

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T6

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S30, T22, R25, W6M

5. (a) Location Site is located north of the Bonaparte Indian Reserve 2 and Highway 12 and west of the major access road through the Indian Reserve.

(b) Access From the junction of Highways 97 and 12, proceed west on Highway 12 for 3.9 km. Turn north onto dirt road through Bonaparte I.R. 2. Continue for 1.2 km on this dirt road to where the t/l crosses the road. Walk west along R-O- across creek and meadow. This site is approximately 55 m west of the meadow edge on a small N-S trending ridge. Site is south of R-O-W.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 53' 54" N. 8. Long. 121° 27' 47" W.

9. UTM 10U FM E 0181 N 394 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L97-T07-Y3M

12. Drainage (a) minor Hat Creek (b) major S. Thompson

13. Elevation (a) 716 m ASL (b) 15 m above meadow

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 15 m N-S × 10m E-W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 95 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, Ponderosa pines

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface only

(e) Non-cultural matrix unknown

(f) Water source None nearby

20. Known finds and present location

9 basalt flakes were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R2:22

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer J. Warner, B. Hansen Date Oct 27 19 82

(c) Recorder J. Warner Date Oct 27 19 82

(d) Revisitor Date ___ ___ 19 ___

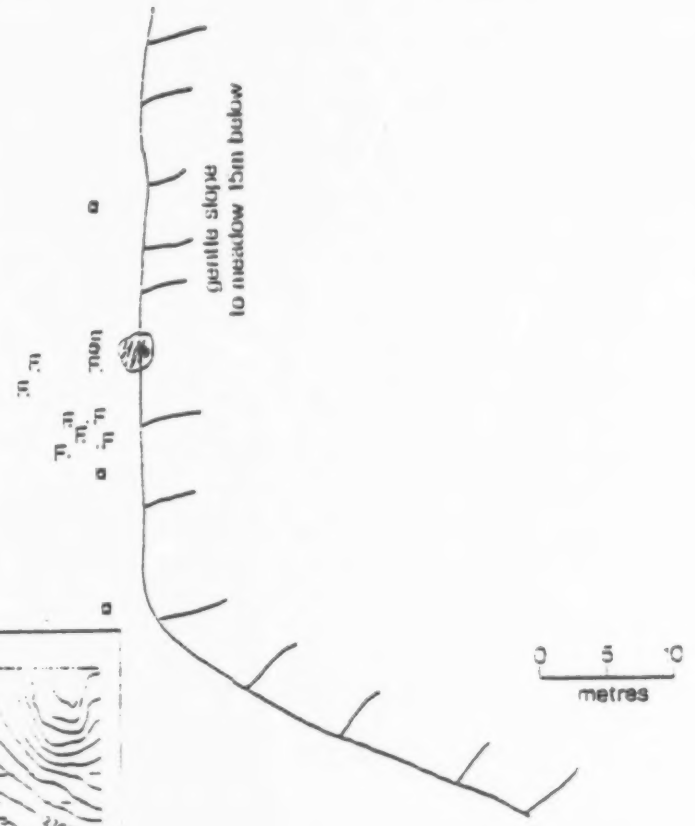
Date ___ ___ 19 ___

26. Remarks Four shovel tests were excavated; none yielded subsurface cultural materials.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EeRi 16

BCH & PA
hub 7112


gentle slope
to meadow 15m below
F
F
F

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 47

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T8

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S30, T22, R25, W6M

5. (a) Location Site is located north of the Bonaparte Indian Reserve 2 and Highway 12 on both sides of a tributary of Cache Creek.

(b) Access From the junction of Highways 97 and 12, proceed west along Highway 12 for 3.9 km. Turn north onto dirt road through Bonaparte I.R. 2. Continue for 1.2 km. This site is situated on both sides of the creek and both sides of the road.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 53' 50" N. 8. Long. 121° 27' 26" W

9. UTM 10U FM/E 0 8 5 N 3 9 2 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L97-T07-X3M

12. Drainage (a) minor Hat Creek (b) major S. Thompson

13. Elevation (a) 701 m ASL (b) same elevation as road

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter; Circular cultural depression; Historic, fence, cabin

16. Dimensions (a) exact 150m N—S × 125 m E—W (b) estimated Unknown

(c) original N/A

17. Condition (a) present 70 % intact (b) future Site is within proposed B.C. Hydro Kelly Lake

X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, rabbitbush, juniper, Ponderosa pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix Unknown

(e) Non-cultural matrix Unknown

(f) Water source Unnamed tributary of Hat Creek is in site centre, vertical distance not recorded.

20. Known finds and present location

Approximately 300 pieces of basalt debitage, 2 basalt bifaces and 2 basalt projectile points were observed in 1982 and left in situ.

Three circular cultural depressions were recorded.

The remains of a cabin and historic debris were noted in 1983. Projectile point #2 could not be relocated in 1983.

21. Photo record ARESCO J684 R3:7-12; 701:A

22. Published and unpublished references (a) None

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 23, 19 82

(c) Recorder Jane Warner Date Jan 10, 19 83

(d) Revisitor Jane Warner, Martin Magne Date Aug 15, 19 83

Date ___, 19 ___

26. Remarks Approximate dimensions

CCD 1: 3 m x 3 m

CCD 2: 1 m x 1 m

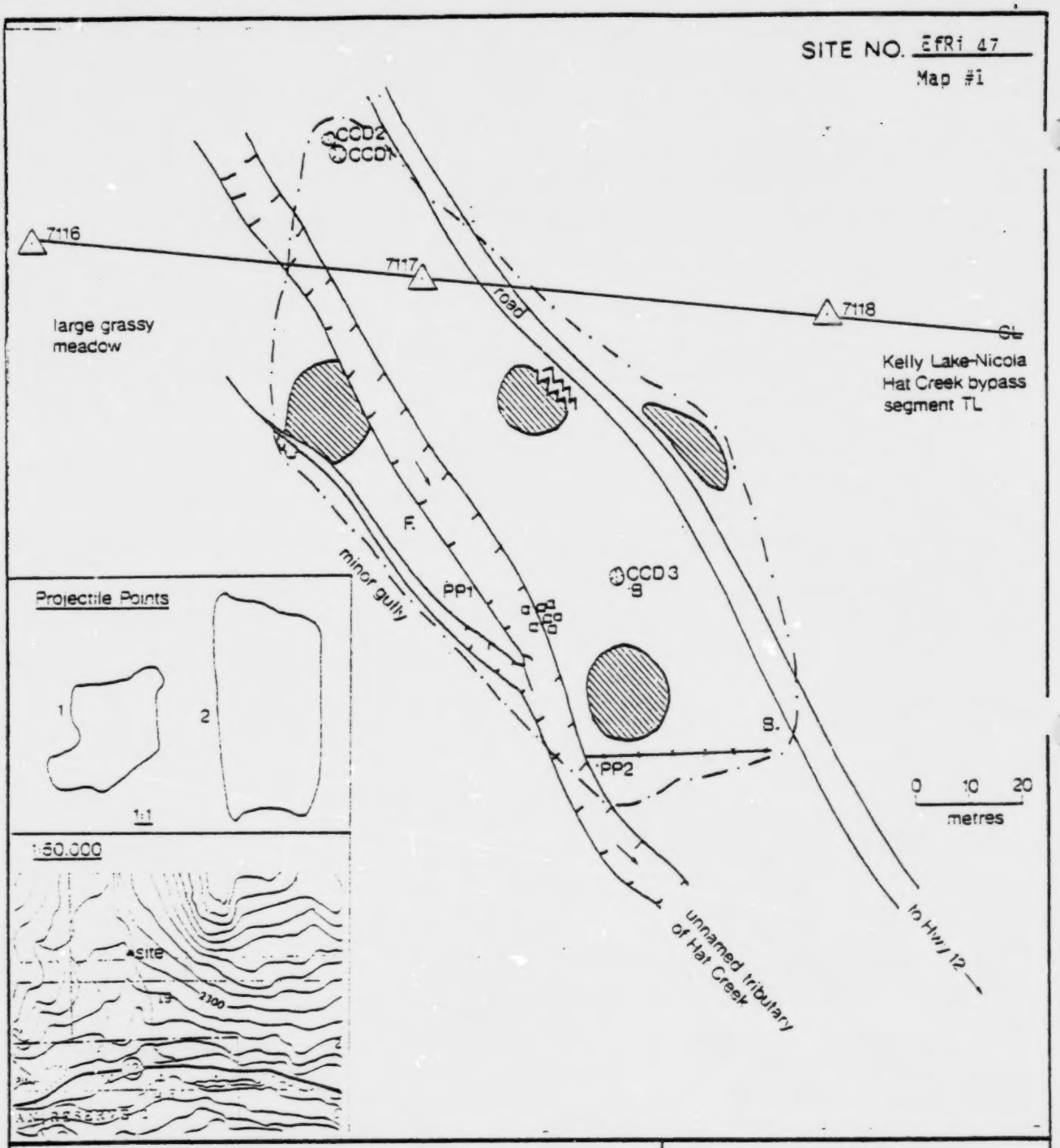
CCD 3: 3 m x 2.75 m

The fence noted on map #1 is an old log fence in very poor repair. See the referenced report for a photograph. The remains of a log cabin were recorded in 1983. In addition to these remains which are in very poor condition, 2 pieces of bottle glass (1 clear, 1 green); 2 pieces of flattened tin; a tobacco can; a tin cup; 12 tin can fragments; and a metal shaker top were recorded. The basalt detritus found in such quantities to the west in the main site area only occurs sporadically at this the eastern extremity of site EfRi 47. Site boundaries were enlarged to encompass these historic remains. The site's latitude, longitude and UTM were left unchanged and thus reflect the location of the main site area - ie. that illustrated in map #1.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 47

Map #1



EXTENT OF SITE

BUILDING

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

Disturbance

Artifact concentration

Circular Cultural Depression

F Flake

B Biface

PP Projectile Point

Pumice blocks

1:50,000 MAP NO. 92I/11

LATITUDE 50° 53' 50" N

LONGITUDE 121° 27' 25" W

UTM GRID REF. 10UFM 285202

TRUE ☐ MAGNETIC ☐

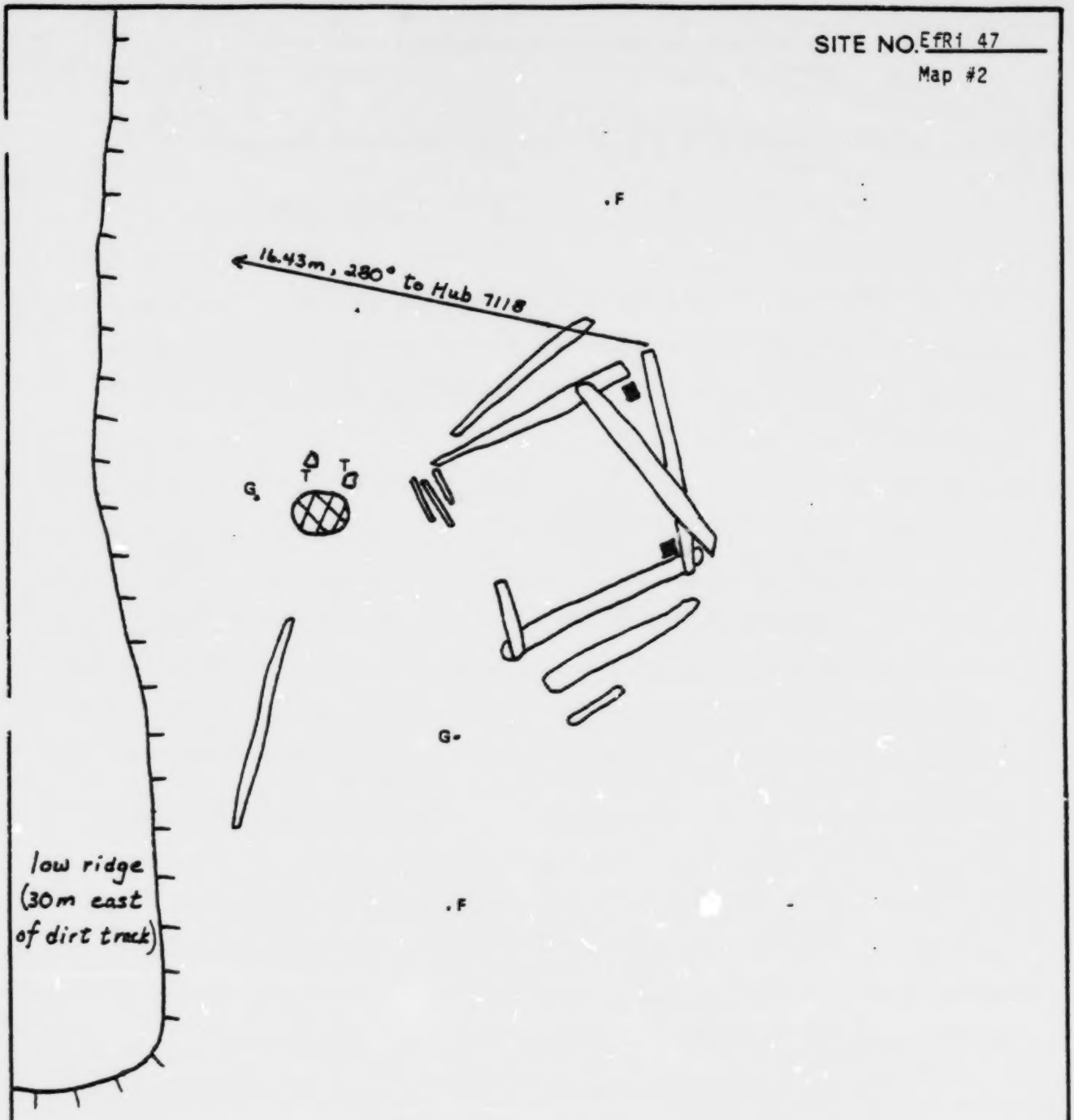
DECLINATION USED

DATE Oct. 29/82

SCALE: 1 CM. = ____ M.

SITE NO. EfRi 47

Map #2



EXTENT OF SITE

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

F basalt flake

T flattened tin pieces

G bottle glass

pothunter's shovel hole

axe-cut log

tobacco can, tin cu

12 tin can fragments, metal shaker top

1:50,000 MAP NO.

LATITUDE

LONGITUDE

UTM GRID REF. ____ ____

TRUE ☐ MAGNETIC ☒

DECLINATION USED

DATE April 15, 1983

SCALE: 1CM. = 1 M.

0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 48

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T9

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S19, T22, R25, W6M

5. (a) Location Site is located north of the Bonaparte Indian Reserve 2 and Highway 12, east of the major access through the Reserve.

(b) Access From the junction of Highways 97 and 12, proceed west along Highway 12 for 3.9 km. Turn north onto dirt road through Bonaparte I.R. 2. Continue to fork in road (about 1 km) and take right (east) fork for 0.1 km. Park vehicle. Site is about 25 m to west in a low area adjacent to a very minor runoff gully.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 53' 46" N. 8. Long. 121° 27' 21" W.

9. UTM 10U FM/E 086 N 391 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Hat Creek (b) major 8, Thompson

13. Elevation (a) 693 m ASL (b) N/A

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 10 m N-S x 10 m E-W (b) estimated Unknown

(c) original ~15 m N-S x 50 m E-W

17. Condition (a) present 90 % intact (b) future Site is within proposed B.C. Hydro Kelly Lake

X Nicola t/l R-Q-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, junipers, Ponderosa pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source unnamed tributary of Hat Creek 150 m west; unknown vertical distance

20. Known finds and present location

10 basalt flakes were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R3:13

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 29, 19 82

(c) Recorder Jane Warner Date Dec 01, 19 82

(d) Revisitor Date ___, 19 ___

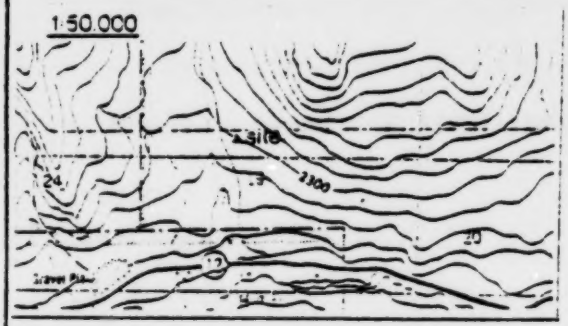
Date ___, 19 ___

26. Remarks Seven basalt flakes were observed in a 10 m x 10 m low area adjacent to the west of a minor runoff gully. Three additional pieces were noted in a disturbed context in the road. Five shovel tests revealed no additional materials.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

1:50,000

SITE NO. EfRi 18



— EfRi 47

nub 7118

Kelly Lake - Nicola TL

open fir & pine forest

very rough drive

0.1 km to main access road

0 5 10

metres

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

a Shovel test

f Flake

1:50,000 MAP NO. 92I/14

LATITUDE 50° 53' 16" N

LONGITUDE 121° 27' 21" W

UTM GRID REF. 10UEM 086381

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Dec. 6, 1982

SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 49

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T13

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S20, T22, R25, W6M

5. (a) Location Site is located between the junctions of Highways 12 and 97 and the Bonaparte I.R. 2, south of Highway 12 but north of Hat Creek.

(b) Access From the junctions of Highways 12 and 97, proceed west on Highway 12 for 2.6 km. Site is on south side of Highway and encompasses 3 terraces.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 53' 10" N. 8. Long. 121° 26' 05" W.

9. UTM 10 FM/E 100 N 381 10. Air photo Unknown

11. Map (a) 92 I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3H

12. Drainage (a) minor Hat Creek (b) major 8, Thompson

13. Elevation (a) 549 m ASL (b) 10 m above Hat Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 50 m N—S x 150 m E—W (b) estimated 75 m N-S x 200 m E-W

(c) original 75 m N-S x 200 m E-W

17. Condition (a) present 65 % intact (b) future Widening of Highway 12.

18. Priority

19. Detailed information (a) Vegetation on site grasses, sage, cactus, fir, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Hat Creek adjacent to south and east; approximately 10 m below

20. Known finds and present location

Approximately 100 pieces of basalt debitage and 1 basalt projectile point were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R3:24,25

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25 (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 30. 19 82

(c) Recorder Jane Warner Date Jan 20. 19 83

(d) Revisitor Date ____ ____. 19 ____

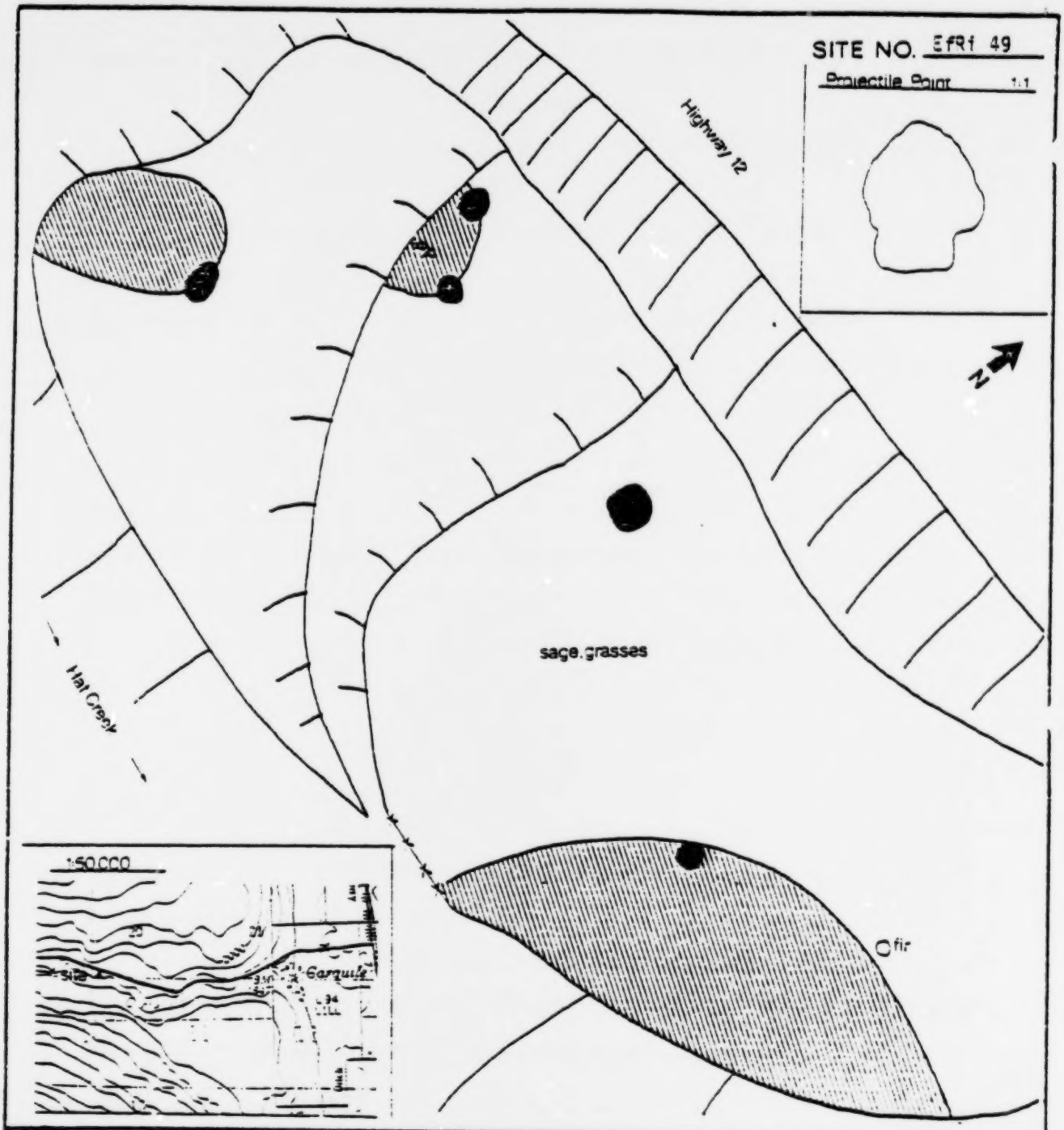
Date ____ ____. 19 ____

26. Remarks

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 49

Projectile Point 1:1



EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

Artifact Concentration

Boulder

PP Projectile Point

1:50,000 MAP no. 92I/11

LATITUDE 50° 53' 10" N

LONGITUDE 121° 25' 05" W

UTM GRID REF. 10UFM 10038

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Jan 20/93

SCALE: 1 CM. = ____ M.

0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 58

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi Ta

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S 17, Tp 22, R25, W6M

5. (a) Location Site is situated between Cache Creek and Carquile, west of Hwy 97 and the Bonaparte River and south of Hat Creek at the eastern edge of a grass meadow (dry lake bed).

(b) Access From the junction of Highways 97 and 12, proceed west along Hwy 12 for 0.7 km. Turn south onto access road to Carquile. Continue along this dirt road for 2 km to a fork in the road just beyond aluminum equipment sheds. Take the uphill road and continue for 1.8 km. Park truck. This site is approximately 55 m north-east of this road.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26. Lillooet

(d) Park Dist. 2 — 5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 52' 48" N. 8. Long. 121° 25' 39" W

9. UTM 10U FM E 107 N 3776 10. Air photo Unknown

11. Map (a) 92 I/14 (b) B.C.H. & P.A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Unnamed tributary of Hat Creek (b) major 8, Thompson

13. Elevation (a) 594 m ASL (b) Same as dirt track

14. Cultural affiliation (a) N/A (b) N/A

15. Site type Historic, wagon

16. Dimensions (a) exact 10 m N-S × 5 m E-W (b) estimated N/A

(c) original N/A

17. Condition (a) present 75 % intact (b) future Site is partially within clearing boundaries of Kelly Lake X Nicola t/l. 18. Priority

19. Detailed information (a) Vegetation on site Ponderosa pine, bunchgrass, prickly pear.

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix N/A, above ground.

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Silt, rock

(f) Water source Hat Creek 400 m north; unknown distance below

20. Known finds and present location

A portion of an old wagon was observed in 1983 and left in situ. It possesses a decayed frame, a thick axle support log, and numerous large nuts and bolts. A square nail is also present. Large mammal bones, sun-bleached, chewed by carnivores/rodents were also observed.

21. Photo record 701:A:12, 13

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O., 1982-3 Heritage Resource Inventory and Impact (cont'd)

23. Site age and/or date (a) Historic ☐ absolute ☒ relative

(b) Source Condition, type of remains

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer M. Magne, J. Warner Date August 13, 19 83

(c) Recorder M. Magne, J. Warner Date August 19 83

(d) Revisitor Date ____ ____, 19 ____

Date ____ ____, 19 ____

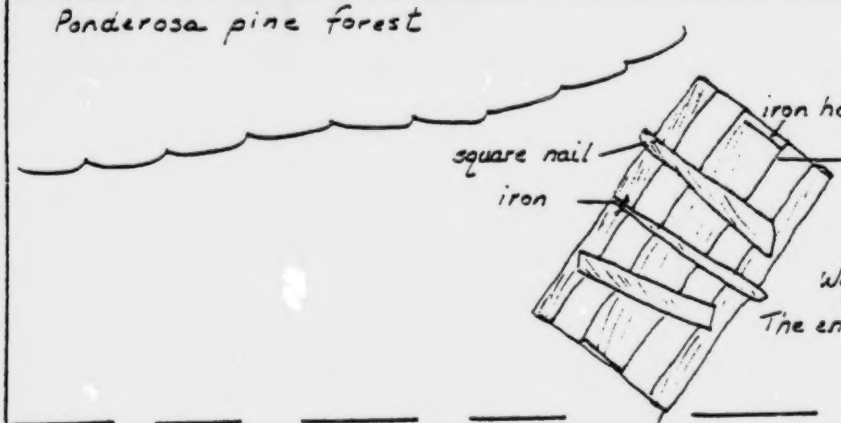
26. Remarks

The Heritage Trust which plans to do interpretive work at Carquile might be interested in this site..

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment.
B.C. Hydro, Vancouver.

Ponderosa pine forest

SITE NO. EfRi 58



Wagon bed is dilapidated.
The entire frame is 0.47 m thick.

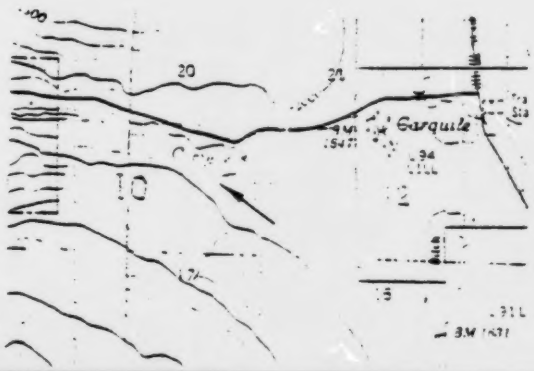
north edge of clearing boundary

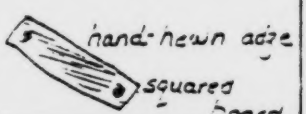
large mammal
bones

axe-cut pole

210°, 43 m to Hub 1808

flat, open area





EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO. 92F/11

LATITUDE 50° 52' 18" N

LONGITUDE 121° 25' 38" W

UTM GRID REF. [illegible]

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE April 1993

SCALE: 1 CM. = 0.5 M.

0 1 2

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 50

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T10

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S16, T22, R25, W6M

5. (a) Location Site is situated between Cache Creek and Carquile, west of Highway 97 and the Bonaparte River at the edge of a high bench overlooking the Bonaparte River Valley.

(b) Access From the junction of Highways 97 and 12, proceed west on Highway 12 approximately 0.7 km. Turn south onto the access road to Carquile. Continue along this road to fork in road at new aluminum equipment sheds (approximately 2 km from junction with Highway 12). Take uphill fork and continue for 0.6 km. Park vehicle. Site is immediately southeast of a large rock outcrop or 350 m at 37° E of N from parked vehicle.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 52' 16" N. 8. Long. 121° 24' 36" W.

9. UTM 10U FM/E 119 N 3655 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 549 m ASL (b) approximately 47 m above Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type Isolated find, artifact

16. Dimensions (a) exact 0.1m N – S × 0.1m E – W (b) estimated N/A

(c) original N/A

17. Condition (a) present 100 % intact (b) future Site is within proposed B.C. Hydro Kelly Lake : Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, cactus, Ponderosa pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix flake

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Bonaparte River 600 m east, 47 m below

20. Known finds and present location

1 basalt flake was recorded in 1982 and left in situ.

21. Photo record ARESCO J684 R3:15,17

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 27 19 82

(c) Recorder Jane Warner Date Jan 20 19 83

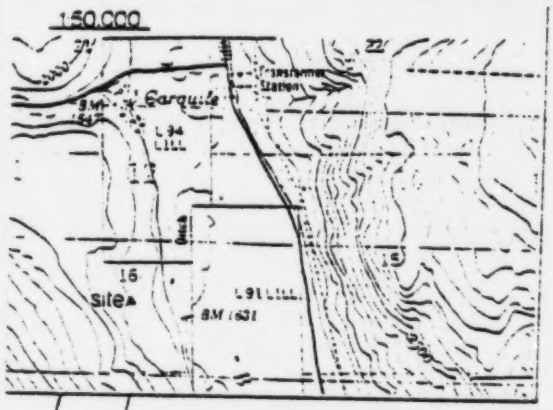
(d) Revisitor Date ___ ___ 19 ___

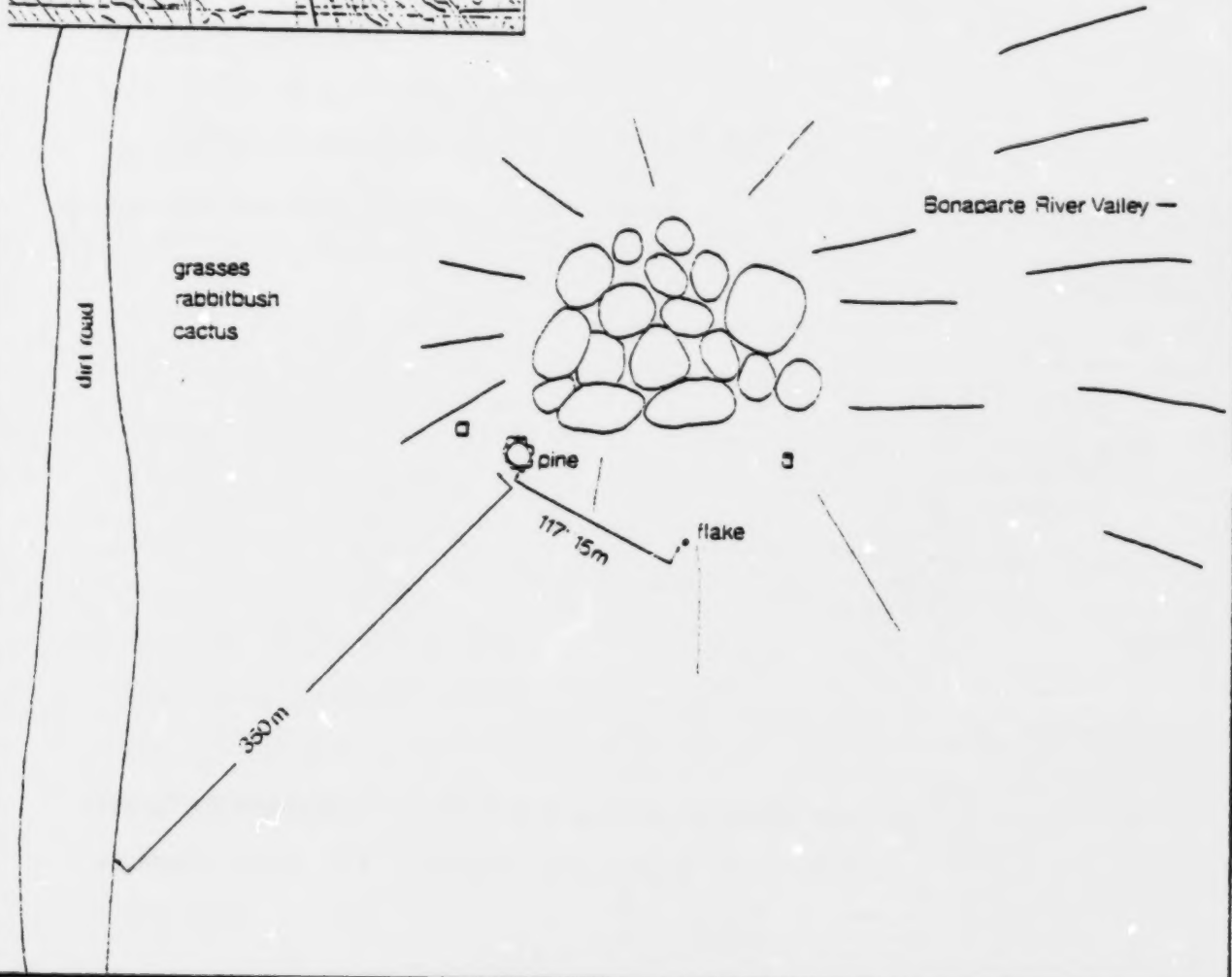
Date ___ ___ 19 ___

26. Remarks Neither of the shovel tests was positive.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 50





EXTENT OF SITE
BUILDING
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
Bedrock outcrop
Shovel test
Flake

1:50,000 MAP NO. 92I/14
LATITUDE 50° 52' 16" N
LONGITUDE 121° 24' 36" W
UTM GRID REF. 10UEM 113365
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Jan 20/93
SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 51

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T12

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, S16, T22, R25, W6M

5. (a) Location Site is situated between Cache Creek and Carquile, west of Highway 97 and the Bonaparte River on a high bench overlooking the Bonaparte River Valley.

(b) Access From the junction of Highways 97 and 12, proceed west on Highway 12 approximately 0.7 km. Turn south onto the access road to Carquile. Continue along this road to fork in road at new aluminum equipment sheds (approximately 2 km from junction with Highway). Take uphill fork and continue for 0.45 km. Park vehicle. Site is located 18 m at 35° E of N (4 m south of large boulder).

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 52' 11" N. 8. Long. 121° 24' 31" W.

9. UTM 10U FM/E 124 N 363 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 541 m ASL (b) approximately 30 m above Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type Isolated find, artifact

16. Dimensions (a) exact 0.1m N-S × 0.1m E-W (b) estimated N/A

(c) original N/A

17. Condition (a) present 100 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, cactus

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix flake

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Bonaparte River 600 m east, 30 m below

20. Known finds and present location

1 basalt flake was recorded in 1982 and left in situ.

21. Photo record ARESCO J684 R3:15

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 30, 19 82

(c) Recorder Jane Warner Date Jan 20, 19 83

(d) Revisitor Date ___ ___, 19 ___

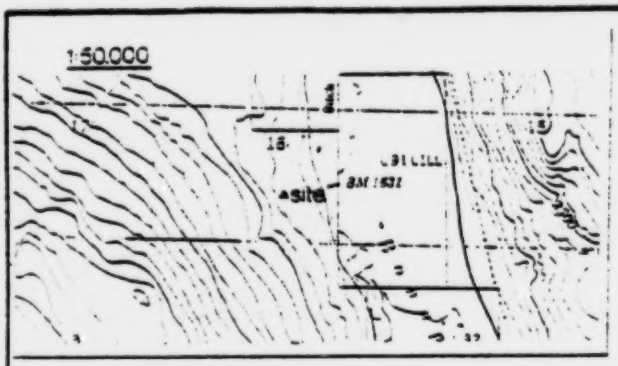
Date ___ ___, 19 ___

26. Remarks Two shovel tests were excavated; neither yielded artifacts.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. DgPi 51

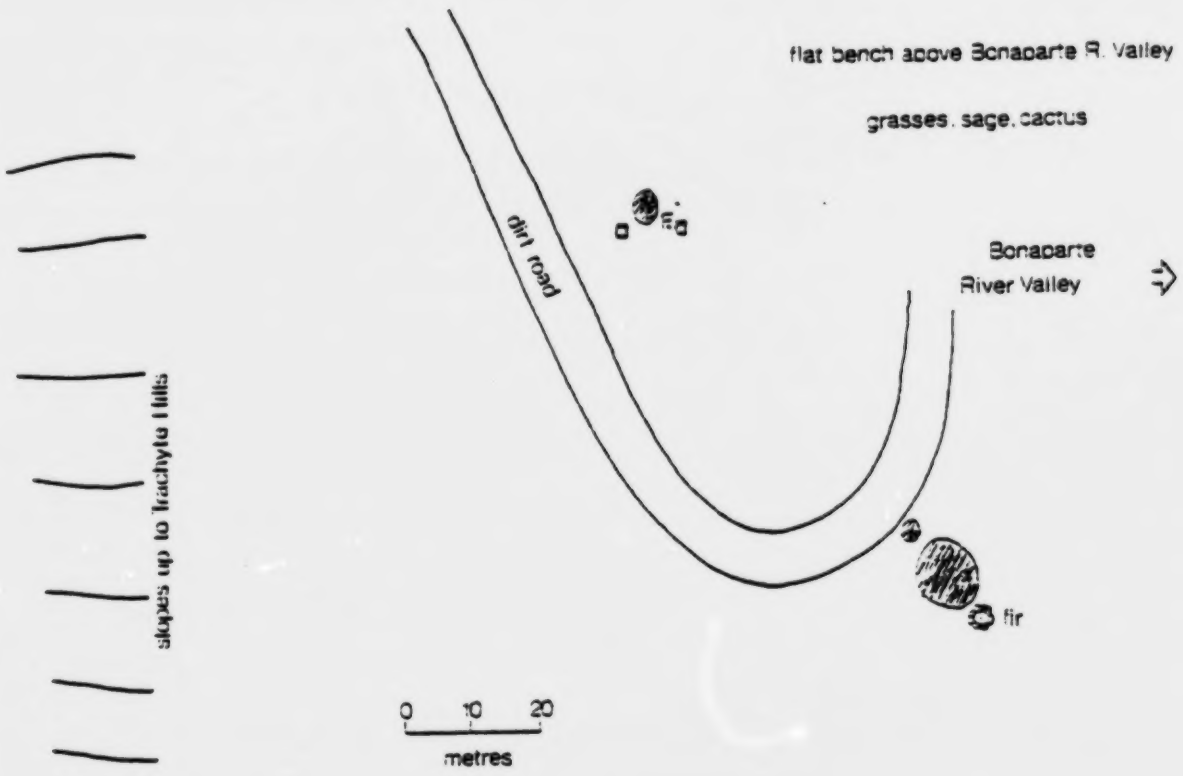
1:50,000



Carquile

flat bench above Bonaparte R. Valley

grasses. sage. cactus



EXTENT OF SITE

BUILDING

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

Boulder

F Flake

Shovel Test

1:50,000 MAP NO. 92I/14

LATITUDE 50° 52' 11" N

LONGITUDE 120° 24' 31" W

UTM GRID REF. 10UEM 120363

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Jan. 20/83

SCALE: 1 CM. = M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 52

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T11

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District NE ¼, S10, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of Highway 97 on the slopes above the Bonaparte River, 40 m east of the centreline of the existing twin transmission lines.

(b) Access From the junction of Highways 1 and 97 in Cache Creek, proceed north along Highway 97 for 8 km to a sign marked "km 8". On the east side of the highway, 15 m to the south of this sign, is a gate; proceed through and continue on this dirt road for 0.4 km. Park vehicle. Site is located approximately 165 m east at the base of the slope.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 37" N. 8. Long. 121° 23' 08" W.

9. UTM 10U FM/E 138 N 3553 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 511 m ASL (b) 50 m above Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type Isolated find, artifact

16. Dimensions (a) exact 0.1 m N–S × 0.1 m E–W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix artifact

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Unknown

(f) Water source Bonaparte River 600 m west., 50 m below

20. Known finds and present location

1 basalt biface fragment was observed and left in situ.

21. Photo record ARESCO J6&4 R3:5

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer J. Warner, B. Hansen Date Oct 26 19 82

(c) Recorder J. Warner Date Dec 06 19 82

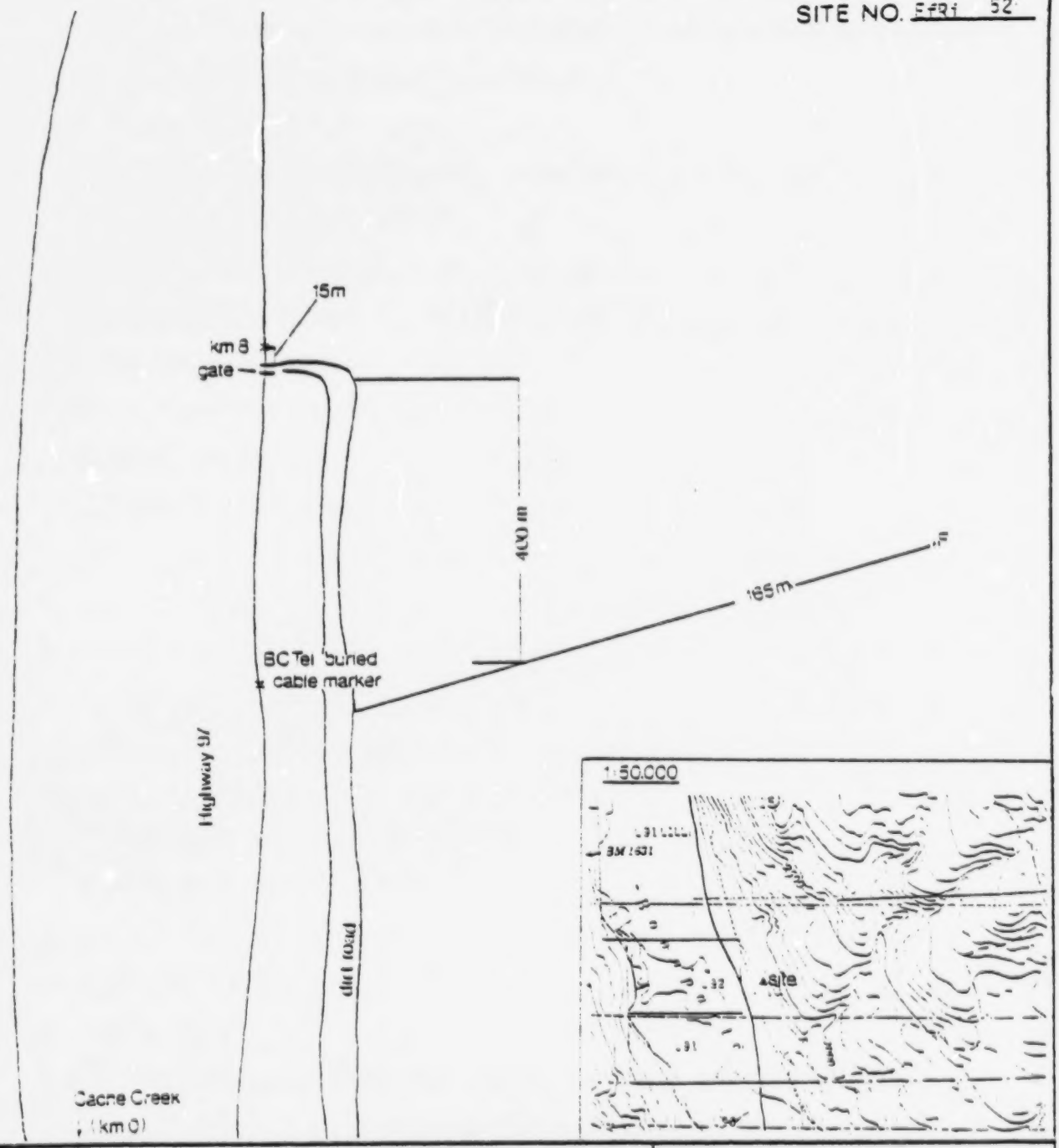
(d) Revisitor Date ___ ___ 19 ___

Date ___ ___ 19 ___

26. Remarks Shovel tests were not excavated at this isolated find site as it was known to be outside the R-O-W and surface exposures were excellent.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 52



EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND

F Flake

1:50,000 MAP NO. 92I/11

LATITUDE 50° 51' 37" N

LONGITUDE 121° 22' 30" W

UTM GRID REF. 10UCM 133353

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Dec. 6, 1982

SCALE: 1 CM. = ____ M.

0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 53

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T3

3. Site name(s) Unknown

4. Legal Kamloops Division of Yale Land District, S10, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of the Bonaparte River and Highway 97 at the edge of a terrace overlooking the Bonaparte River Valley.

(b) Access Access was gained via helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 41" N. 8. Long. 121° 22' 26" W.

9. UTM 10 U FM/E 144 N 3554 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 732m ASL (b) Approximately 250 m above Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type Isolated find, artifact

16. Dimensions (a) exact 0.1 m N-S × 0.1m E-W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future Site is within B.C. Hydro Kelly Lake X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976).

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Bonaparte River 1 km southwest, 244 m below

20. Known finds and present location

A broken projectile point of black basalt was recorded in 1982 and left in situ.

21. Photo record ARESCO J684 R1:23-25

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date 31 08 21 7. 19 81 2

(c) Recorder Jane Warner Date 31 08 21 7. 19 81 2

(d) Revisitor Date ___ ___. 19 ___

Date ___ ___. 19 ___

26. Remarks Three shovel tests were excavated; none yielded subsurface deposits.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRf 53

Isolated Find

1:1

1:50,000

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

1:50,000 MAP NO. 92F/11

LATITUDE 50° 51' 12" N

LONGITUDE 120° 22' 12" W

UTM GRID REF. 10UFM 111361

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Oct. 27, 1982

SCALE: 1 CM. = ____ M.

0

Additional Information

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 12

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) None

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, L5736, T22, R25, W6M .

5. (a) Location Site is situated between Cache Creek and Carquile, east of the Bonaparte River and Highway 97 at the edge of a terrace on the north side of an unnamed intermittent tributary of the Bonaparte River.

(b) Access Access was gained by helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 42" N. 8. Long. 121° 22' 21" W.

9. UTM 10U FM/E145 N355 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 732 m ASL (b) 100 m above intermittent tributary of Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 20 m N—S × 20 m E — W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source unnamed intermittent tributary of Bonaparte River 50 m east, 100 m vertical

20. Known finds and present location

13 flakes observed and left in situ in 1975 - D. Pokotylo

20 basalt flakes were observed in 1982 and left in situ - J. Warner

21. Photo record ARESCO J684 R2:13

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer D. L. Pokotylo Date June 24, 19 75

(c) Recorder D.L. Pokotylo 1975; Jane Warner Date May 25, 19 83

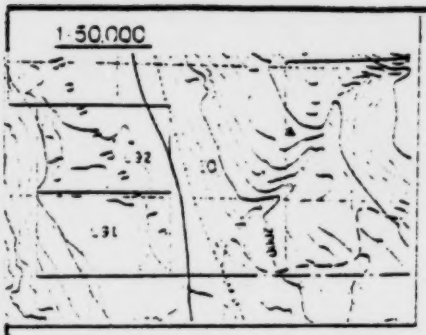
(d) Revisitor Jane Warner, Bob Hansen Date Oct 27, 19 82

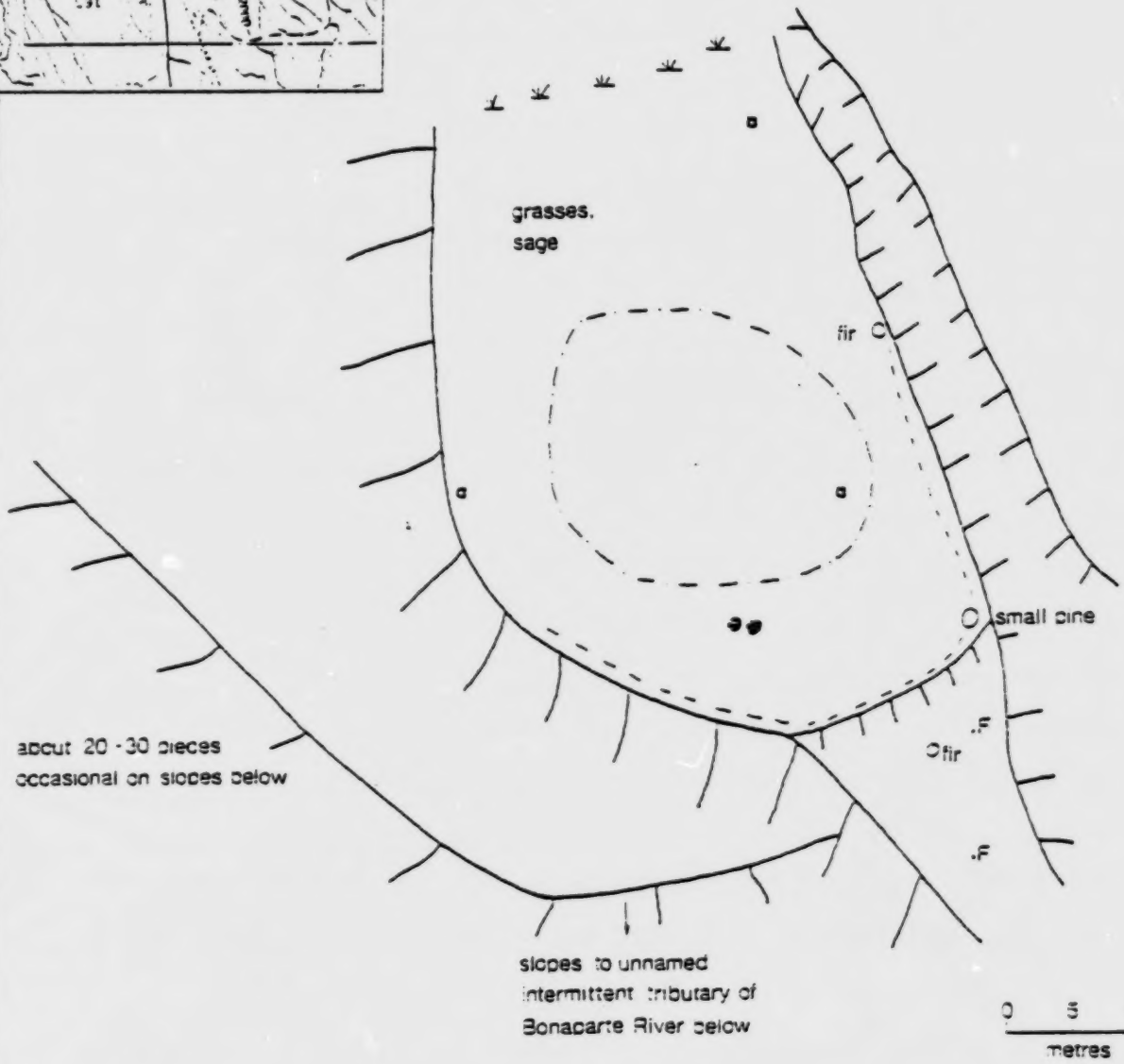
Date ____ ____, 19 ____

26. Remarks - Approximately 20 flakes were observed in an area 20 m x 20 m (shown as site area on map). An additional 20 pieces were noted widely spaced on the slopes below.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfR1 12





EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
Boulder
Flake
Shovel test

1:50,000 MAP NO. 92I/11
LATITUDE 50° 51' 12" N
LONGITUDE 121° 22' 22" W
UTM GRID REF. 10UFM 145355
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Jan. 25/83
SCALE: 1 CM. = ____ M.

Additional Information

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 11

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) None

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, L5736, T22, R25, W6M

5. (a) Location Site is situated bedtween Cache Creek and Carquile, east of the Bonaparte River and Highway 97 at the edge of a terrace on the north side of an unnamed intermittent tributary of the Bonaparte River, southwest of a barbed wire fence.

(b) Access Access was gained via helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 40" N. 8. Long. 121° 22' 18" W.

9. UTM 10U FM/E 146 N 354 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 732 m ASL (b) 100 m above intermittent tributary of Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 20 m N–S × 20 m E–W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future Site is partially within B.C.H. & P.A. Kelly Lake X Nicola t/l r-o-w. 18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, Ponderosa pine, Douglas fir

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Unnamed intermittent tributary of the Bonaparte River approx. 100 m south 100 m below

20. Known finds and present location

Approximately 10 pieces of basalt debitage were observed in 1975 and left in situ - D. Pokotylo

Approximately 30 pieces of basalt debitage were observed in 1982 and left in situ - J. Warner, B. Hansen

21. Photo record ARESCO J684 R1:19

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer D.L. Pokotylo Date Jun 21. 19 75

(c) Recorder D.L. Pokotylo 1975; Jane Warner Date Jan 25. 19 83

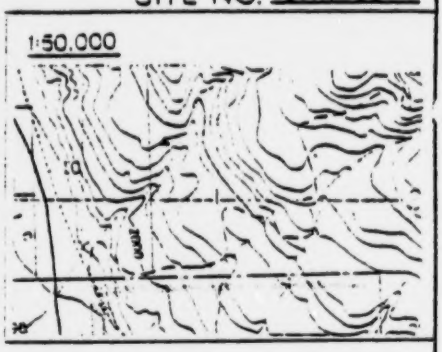
(d) Revisitor Jane Warner, Bob Hansen Date Oct 27. 19 82

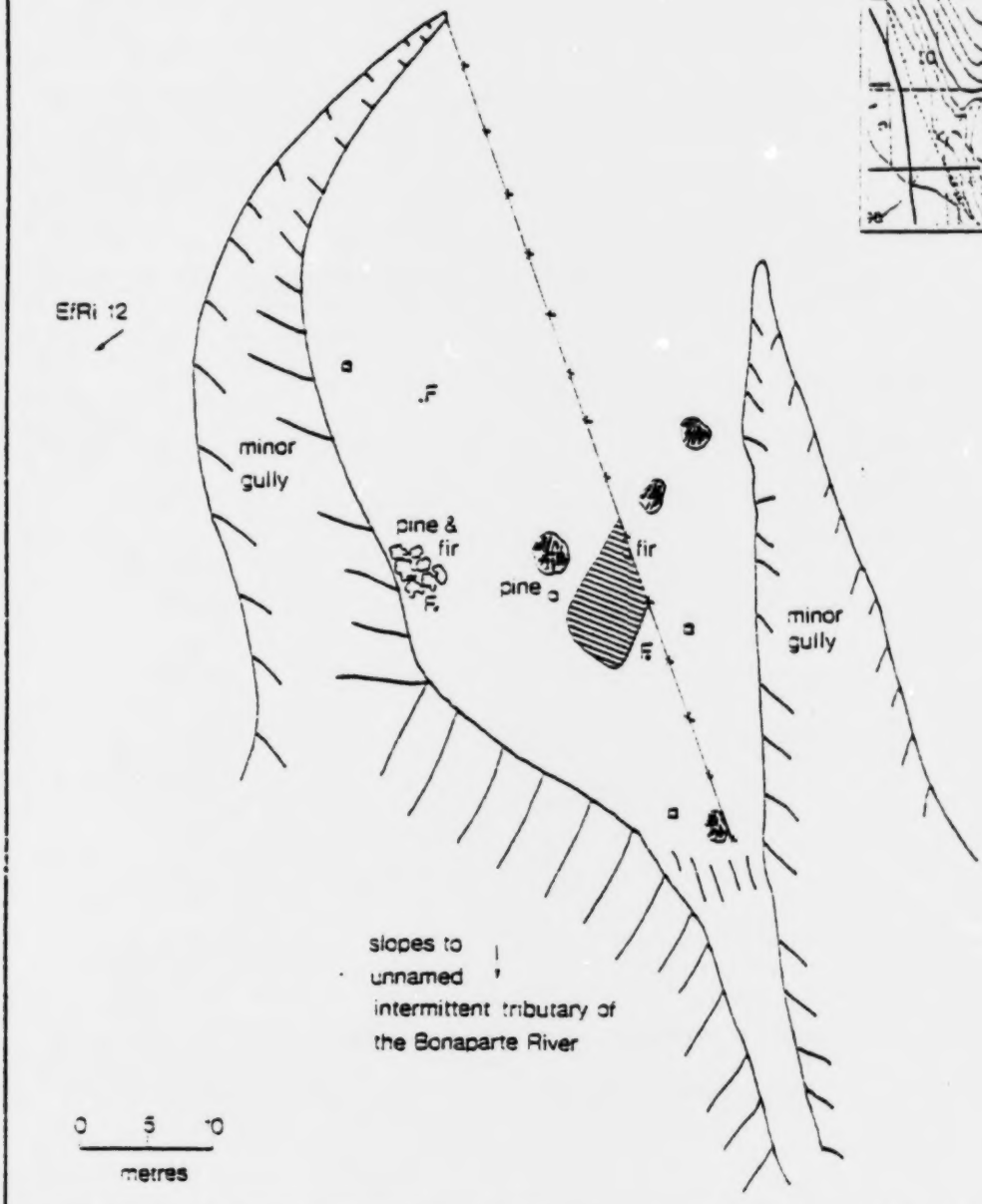
Date ___ ___. 19 ___

26. Remarks None of the 3 shovel tests was productive.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 11





EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
Boulder
F Flake
Artifact concentration
Shovel test

1:50,000 MAP NO. 92I/14
LATITUDE 50° 51' 40" N
LONGITUDE 121° 22' 13" W
UTM GRID REF. 10UFM 146354
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Jan. 25/83
SCALE: 1 CM. = ____ M.
0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 57

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T1

3. Site name(s) Unknown

4. Legal Kamloops Division of Yale Land District, L5736, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of the Bonaparte River and Highway 97, on the south bank of an unnamed tributary of the Bonaparte River.

(b) Access From the junction of Highways 1 and 97 in Cache Creek proceed north along Highway 97 for 8 km to a sign marked "km 8". On the east side of the highway, 15 m south of this sign, is a gate. Proceed through and continue up dirt road which winds its way up the hill via various routes. One route leads to the creek edge north of a barbed wire fence. Park truck. Site is uphill at the terrace edge at the base of the slope south of another barbed wire fence.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 35" N. 8. Long. 121° 22' 10" W.

9. UTM 10U FM/E 148 N 353 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 709 m ASL (b) 75 m above tributary of Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 11 m N—S × 15 m E—W (b) estimated 20 m N-S x 20 m E-W

(c) original Unknown

17. Condition (a) present 95 % intact (b) future Site is within B.C.H. & P.A. Kelly Lake-Nicola t/l R-0-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, willow, sagebrush, fir and pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix Surface only

(e) Non-cultural matrix Brown silt

(f) Water source Unnamed tributary of the Bonaparte River; 5 m west, 75 m below

20. Known finds and present location

4 pieces of basalt debitage were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R1:0,1,20; R2:20

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer J. Warner, B. Hansen Date Oct 25 19 82

(c) Recorder J. Warner Date Jan 25 19 83

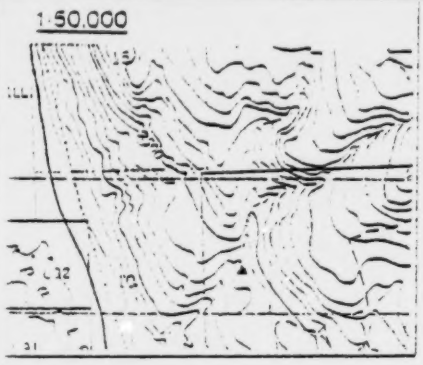
(d) Revisitor Date ___ ___ 19 ___

Date ___ ___ 19 ___

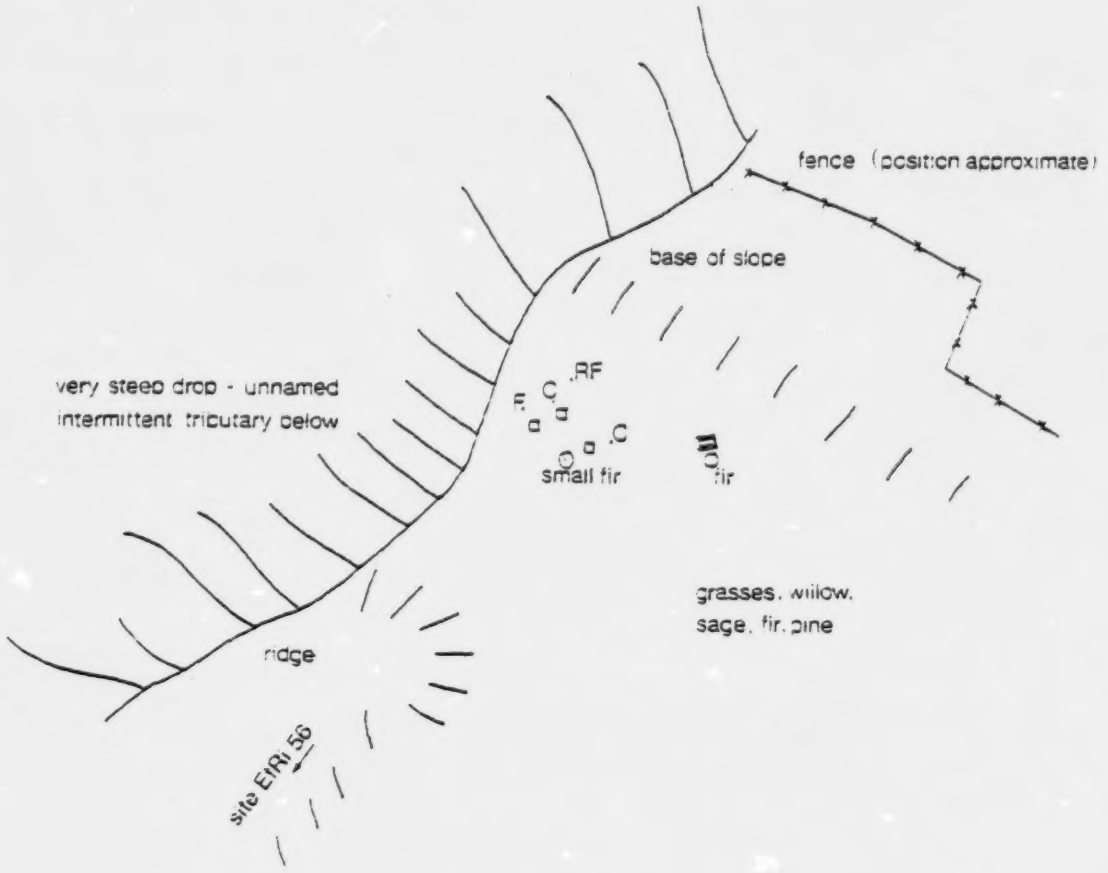
26. Remarks Three shovel tests were excavated at this small site, no additional cultural materials were noted. There is excellent surface exposure at this site which is located at the edge of a ravine in an open, pine forest. EfRi 57 is situated in a low "saddle" between the ridge on which EfRi 56 is located and the base of the slope. EfRi 56 is situated at the same terrace some 65 m to the southwest.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

1:50,000



SITE NO. EfRi 57



EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

Crate

F. Flake

RF. Retouched Flake

C. Core

Shovel test

1:50,000 MAP NO. 92I/11

LATITUDE 50° 51' 35" N

LONGITUDE 121° 22' [illegible] W

UTM GRID REF. 10UEM 118351

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Jan. 25/83

SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi—56

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T2

3. Site name(s) Unknown

4. Legal Kamloops Division of Yale Land District, L5736, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of the Bonaparte River and Highway 97, on the south bank of an unnamed tributary of the Bonaparte River.

(b) Access From the junction of Highways 1 and 97 in Cache Creek proceed north along Highway 97 for 8 km to a sign marked "km 8". On the east side of the highway, 15 m south of this sign, is a gate. Proceed through and continue up dirt road which winds its way up the hill via various routes. One route leads to the creek edge north of a barbed wire fence. Park vehicle. Site is uphill.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51′ 34″ N. 8. Long. 121° 22′ 10″ W.

9. UTM 10U FM E148 N353 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 709 m ASL (b) 75 m above tributary of Bonaparte River

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 15 m NW – SE × 50 m NE – SW (b) estimated Unknown

(c) original Unknown

17. Condition (a) present 95 % intact (b) future Site is within B.C. Hydro Kelly Lake X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix brown silt

(f) Water source Unnamed tributary of the Bonaparte River; 5 m west, 75 m vertical

20. Known finds and present location

Approximately 25 pieces of basalt debitage were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R1:20; R2:14,20

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansan Date [illegible] 19 [illegible]

(c) Recorder Jane Warner Date [illegible] 19 [illegible]

(d) Revisitor Date [illegible] 19 [illegible]

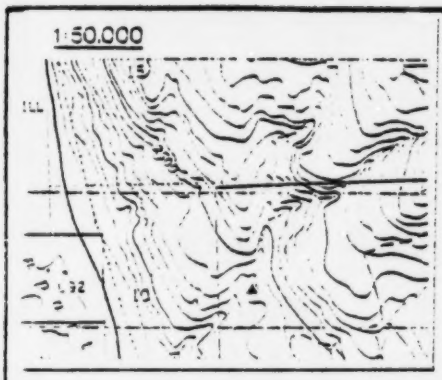
Date [illegible] 19 [illegible]

26. Remarks Three shovel tests were excavated at this small site. None yielded subsurface cultural materials. There is excellent surface exposure at this site as it is situated in an open, pine forest.

Site EfRi 57 is approximately 65 m to the northeast along the same terrace edge. EfRi 57 is, however, situated in a low "saddle" between the ridge on which EfRi 56 is located and the base of the slope.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

1:50,000



SITE NO. EfRi 56

. site
EfRi 57

knoll

grasses. sage. pine

very steep drop
to ravine below

gentle slope

0 5 10
metres

EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND

a Shovel test
p Pine
J Juniper
f Flake
C Possible core

1:50,000 MAP NO. 92I/11
LATITUDE 50° 51' 34" N
LONGITUDE 121° 22' 10" W
UTM GRID REF. 10UEM 148353
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Jan. 25/83
SCALE: 1 CM. = M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 55

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T4

3. Site name(s) Unknown

4. Legal Kamloops Division, Yale Land District, L5736, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of Bonaparte River and Highway 97, on the south bank of an unnamed tributary of Bonaparte River.

(b) Access From the junction of Highways 1 and 97 in Cache Creek proceed north along Highway 97 for 8 km to a sign marked "km 8". On the east side of the highway, 15 m south of this sign, is a gate. Proceed through and continue up dirt road which winds its way up the hill via various routes. One route leads to the creek edge north of a barbed wire fence. Park vehicle. Site is 100 m south, on the south side of the barbed wire fence uphill from a grass meadow.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26. Lillooet

(d) Park Dist. 2—5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 28" N. 8. Long. 121° 22' 19" W.

9. UTM 10U FM/E 149 N 351 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 725 m ASL (b) 65 m above intermittent creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 35 m N—S × 25 m E—W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 95 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, rabbitbush, Ponderosa pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Unnamed intermittent tributary of the Bonaparte 40 m N, 65 m below

20. Known finds and present location

8 basalt flakes were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R2:16-20

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 21, 19 82

(c) Recorder Jane Warner Date Oct 21, 19 82

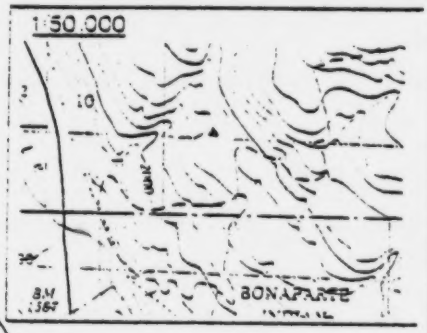
(d) Revisitor Date ____, 19 ____

Date ____, 19 ____

26. Remarks Three shovel tests were excavated; none yielded subsurface deposits.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRl 55



very steep slope to unnamed tributary of the Bonaparte River

dirt track

RF

F

datum

F

F

F

F

series of slopes & terraces to Bonaparte River valley

meadow

0 5 10
metres

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

F Flake

RF Retouched flake

Boulder

C Conifer

S Shovel test

1:50,000 MAP NO. 92I/14

LATITUDE 50° 51' 29" N

LONGITUDE 121° 22' 19" W

UTM GRID REF. 10UFM 149351

TRUE ☐ MAGNETIC ☐

DECLINATION USED _____

DATE Oct. 21/92

SCALE: 1 CM. = _____ M.

BY _____

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi— 54

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi T5

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, L5736, T22, R25, W6M

5. (a) Location Site is situated between the town of Cache Creek and the junction of Highways 12 and 97, east of the Bonaparte River and Highway 97, on the edge of a high bench overlooking the Bonaparte River Valley.

(b) Access From the junction of Highways 1 and 97 in Cache Creek proceed north along Highway 97 for 8 km to a sign marked "km 8". On the east side of the highway, 15 m south of this sign, is a gate. Proceed through and continue up dirt road which winds its way up the hill via various routes. One route leads to the creek edge north of a barbed wire fence. Site is 200 m east of fork in secondary access road on a level, grass-covered terrace (south of the above mentioned road).

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26. Lillooet

(d) Park Dist. 2—5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 21" N. 8. Long. 121° 22' 18" W.

9. UTM 10 FM/E 149 N 3449 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. SL97-T07-Y3M

12. Drainage (a) minor Bonaparte River (b) major 8, Thompson

13. Elevation (a) 718 m ASL (b) Same as access road

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 75 m NW-SE × 60 m NE-SW (b) estimated N/A

(c) original Unknown

17. Condition (a) present 95 % intact (b) future None known.

18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, rabbitbush

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Bonaparte River approximately 15 km southwest 150 m below

20. Known finds and present location

8 basalt flakes and 1 basalt corner-notched projectile point were noted in 1982 and left in situ.

21. Photo record ARESCO J684 R2:17,21

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 21, 19 82

(c) Recorder Jane Warner Date Oct 21, 19 82

(d) Revisitor Date ____, 19 ____

Date ____, 19 ____

26. Remarks

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 54

to EfRi T4
200m west along lower fork
in road

Projectile Point

1:1

to main access road

dirt track

.pp

.F .F .F

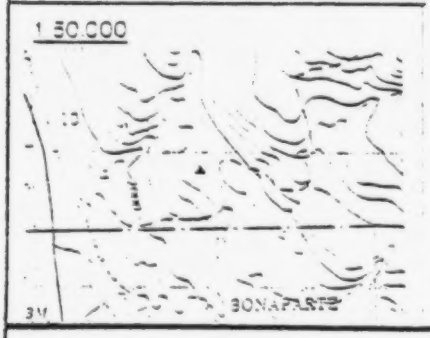
.F

grass, sagebrush,
rabbitbush covered terrace

.F

.F

.F



0 5 10
metres

.F

to the Bonaparte River valley

EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
.pp Projectile point
.F Flake

1:50,000 MAP NO. 92I/11
LATITUDE 50° 51' 21" N
LONGITUDE 121° 22' 18" W
UTM GRID REF. 10UFM 149349
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Oct. 21, 1982
SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRi — 59

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRi Tb

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, Lot 5736, Tp 22, R25, W6M

5. (a) Location This site is situated 500 m north of the Bonaparte I.R. 3A on the west bank of an unnamed tributary of the Bonaparte River.

(b) Access Proceed north along Hwy. 97 from Cache Creek for 8 km to a sign marked "km 8". On east side of Hwy, 15 m south of this sign is a gate. Proceed through and continue on dirt road 1.3 km to a gate, continue another 1.0 km to next gate. Continue another 0.4 km to ungated fence beside old log fence. Continue on main road for another 3 km to where R-O-W crosses road. Site is on creek edge to the right (east) of the road.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26. Lillooet

(d) Park Dist. 2—5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 51' 27" N. 8. Long. 121° 21' 23" W.

9. UTM 10U FM/E 158 N 3551 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C.H. & P.A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Unnamed tributary of Bonaparte River (b) major 8, Thompson

13. Elevation (a) 870 m ASL (b) Approximately 3 m below road

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 6 m N-S × 3 m E-W (b) estimated Same

(c) original Unknown

17. Condition (a) present 100 % intact (b) future Site is within B.C.H. & P.A. Kelly Lake X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site Ponderosa pine, bunchgrass

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix Silt, pine needles

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Medium dark soil and humic layer to 5 cm b.s., rock with a bit of silt to 20 cm b.s.

(f) Water source Unnamed tributary 50 m east, 30 m below.

20. Known finds and present location

3 basalt flakes were observed and left in situ.

21. Photo record 701:A:18

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3 Heritage Resource Inventory and Impact (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer M. Magne, J. Warner Date Aug 12 19 83

(c) Recorder M. Magne, J. Warner Date Aug 22 19 83

(d) Revisitor Date ____ ____ 19 ____

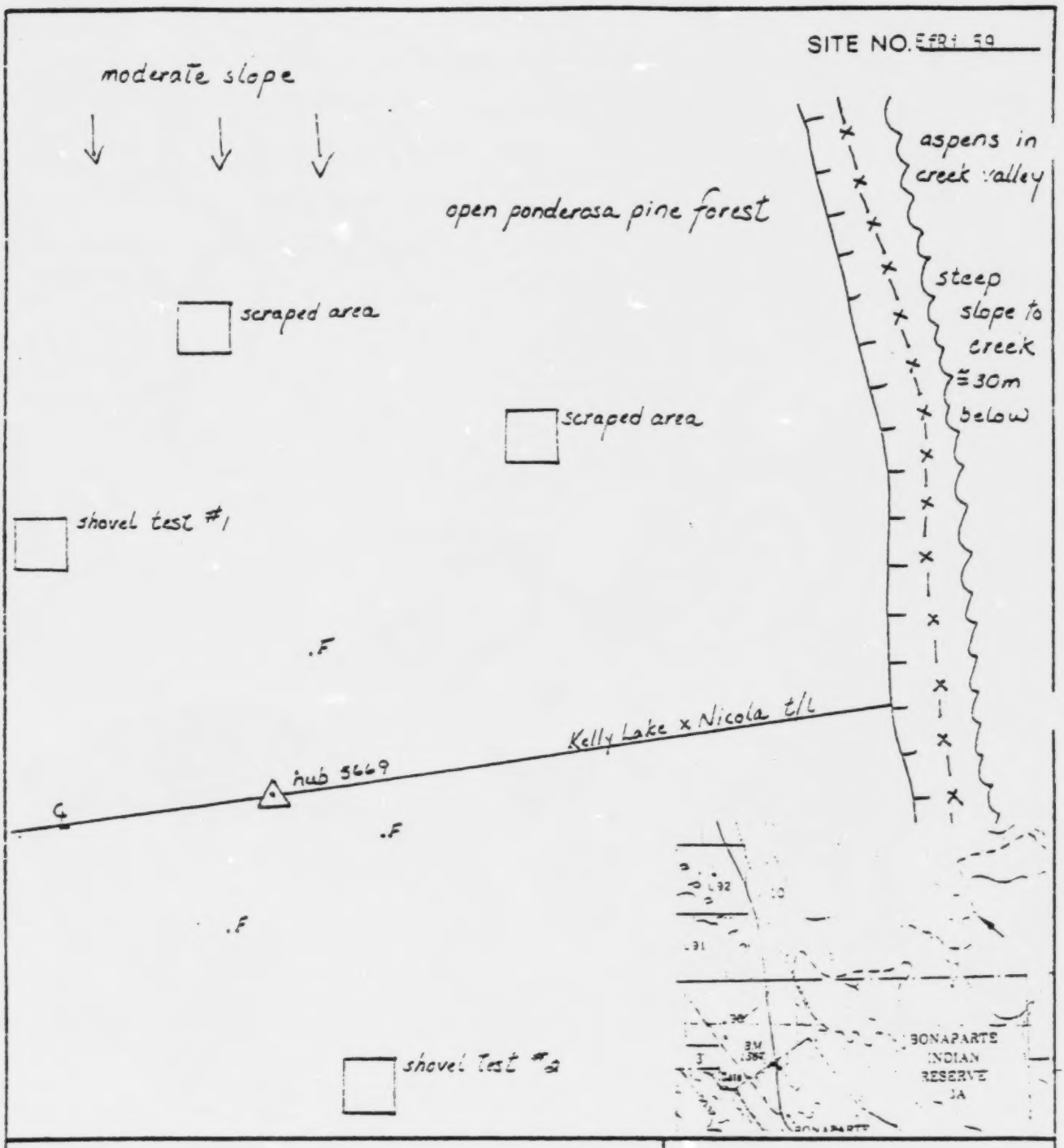
Date ____ ____ 19 ____

26. Remarks

Two shovel tests and 2 "scrapes" were placed in the vicinity of the surface finds. None yielded additional materials. (The "scrapes" consisted of 1 m x 1 m areas where the pine needles were removed. These were placed where the pine needle cover was thick.) There is not a lot of soil development at this site. Shovel test #1 yielded 6 cm of soil above rock and shovel test #2 yielded 4.8 cm of soil above rock.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRi 59



EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
F flake

1:50,000 MAP NO. 92 I/11
LATITUDE 50° 51' 27" N
LONGITUDE 121° 21' 23" W
UTM GRID REF. 10U FM 153351
TRUE ☐ MAGNETIC ☑
DECLINATION USED
DATE April 1983
SCALE: 1 CM. = 1/2 M.

0 1 2 3 4 5

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh — 10

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T5

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, L5736, T22, R24, W6M

5. (a) Location Site is situated north-northeast of the junction of Highways 1 and 97 in Cache Creek, northeast of an unnamed tributary of Lopez Creek.

(b) Access Access was gained by helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 45" N. 8. Long. 121° 18' 36" W.

9. UTM 10U FM/E 189 N 339 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Lopez Creek (b) major 8, Thompson

13. Elevation (a) 983 m ASL (b) N/A

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 60 m N – S × 50 m E – W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 50 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, willow, rose, Douglas fir and Ponderosa pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Unnamed intermittent tributary of Lopez Creek 70 m west, approximately 30 m vertical

20. Known finds and present location

Approximately 200 - 250 pieces of basalt debitage and 1 basalt biface were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R1:12-17

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Dec 25 19 82

(c) Recorder Jane Warner Date Dec 29 19 82

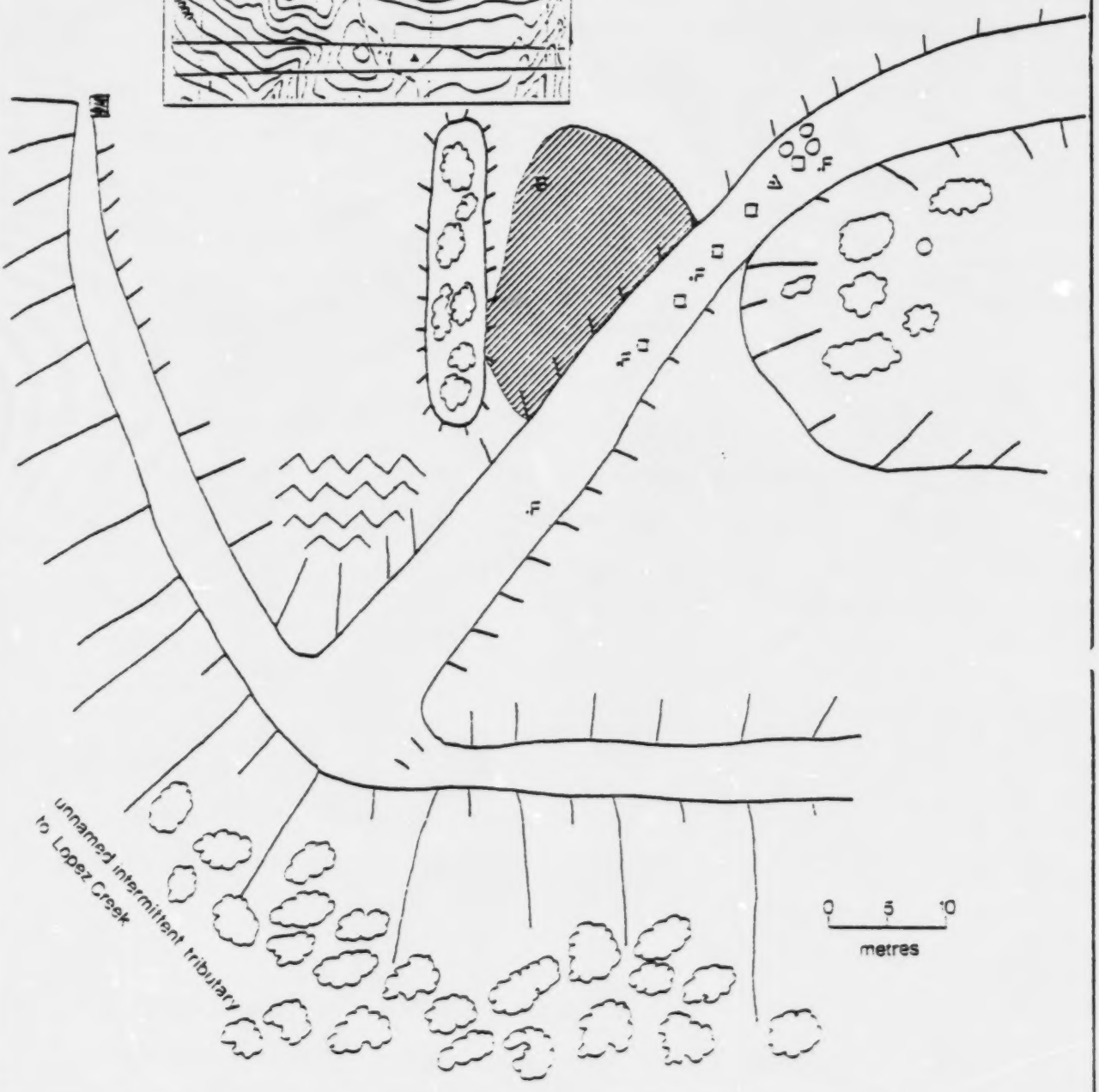
(d) Revisitor Date ___ ___ 19 ___

Date ___ ___ 19 ___

26. Remarks This site has been heavily disturbed through use of the area as a log landing. The artifact concentration is in a low wet area. Five shovel tests were excavated on an undisturbed ridge; none yielded subsurface deposits.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRh 10



EXTENT OF SITE
BUILDING
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
- Shovel test
- F Flake
- B Biface
- Artifact concentration
- Conifer
- Deciduous trees & shrubs
- Large stump
- Area most heavily disturbed

1:50,000 MAP NO. 92I/14
LATITUDE 50° 30' 15" N
LONGITUDE 121° 18' 36" W
UTM GRID REF. 10UEM 149330
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Oct. 29/82
SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh— 16

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh Tf

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, Tp 22, R24, W6M

5. (a) Location Site is located northeast of the town of Cache Creek on a terrace on the east side of Lopez Creek.

(b) Access Access was gained by helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson-Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26. Lillooet

(d) Park Dist. 2—5. Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 34" N. 8. Long. 121° 17' 36" W.

9. UTM 10U FM/E 201 N 3334 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C.H. & P.A. Dwg. No. 5L87-T07-X3M

12. Drainage (a) minor Lopez Creek (b) major 8, Thompson

13. Elevation (a) 914 m ASL (b) Not recorded

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 20m N-S × 4 m E-W (b) estimated Same

(c) original Unknown

M50-121

17. Condition (a) present 100 % intact (b) future Site is within B.C.H. & P.A. Kelly Lake X Nicola t/l R-O-W. 18. Priority

19. Detailed information (a) Vegetation on site Ponderosa pine, Douglas fir, bunchgrass, sedge, prickly pear

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix Silt, rocks

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Silt to 8 to 10 cm b.s. and then rocks

(f) Water source Lodez Creek approximately 300 m west, 50 m below

20. Known finds and present location

3 basalt flakes were observed in 1983 and left in situ.

21. Photo record 701:8:4, 5

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3 Heritage Resource Inventory and Impact (cont'd)

23. Site age and or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer M. Magne, J. Warner Date [illegible] 14, 19 83

(c) Recorder M. Magne, J. Warner Date [illegible] 1, 19 83

(d) Revisitor Date ____, 19 ____

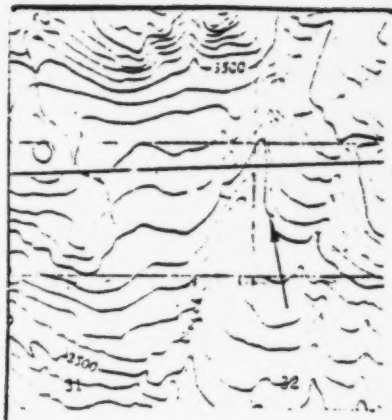
Date ____, 19 ____

26. Remarks

Surface exposure is excellent at this site. To determine depth of soil 3 shovel tests were excavated. None yielded artifacts. The position of shovel test # 1 on the accompanying sketch map is accurate; #2 and #3 are approximate only.

22.(b)(cont'd) Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRh 16



Open Ponderosa pine, occasional Douglas fir forest

F

1

Kelly Lake x Nicola t/l

hub 9751

bunchgrass, sedge, opuntia

3

Lopez Creek
300 m

F

2

F

south edge clearing bdry

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

F basalt flake

shovel test

young Douglas fir

1:50,000 MAP NO. 92I/14

LATITUDE 50° 50' 34" N

LONGITUDE 121° 17' 36" W

UTM GRID REF. 10UFM 201334

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE April 1983

SCALE: 1 CM. = 2 M.

0 1 3

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh— 12

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T3

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T22, R24, W6M

5. (a) Location Site is located northeast of the town of Cache Creek on a terrace on the east side of Lopez Creek.

(b) Access Access was gained by helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 27" N. 8. Long. 121° 17' 39" W.

9. UTM 10U FM/E 201 N 333 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Lopez Creek (b) major 8, Thompson

13. Elevation (a) 892 m ASL (b) not recorded

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 20 m N _S × 60 m E _W (b) estimated Unknown

(c) original N/A

17. Condition (a) present 100 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, rabbitbush, fir, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Lopez Creek 75 m west, 75 m below

20. Known finds and present location

4 basalt flakes were recorded in 1982 and left in situ.

21. Photo record ARESCO J684 R1:6,18

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 26 19 82

(c) Recorder Jane Warner Date Oct 10 19 82

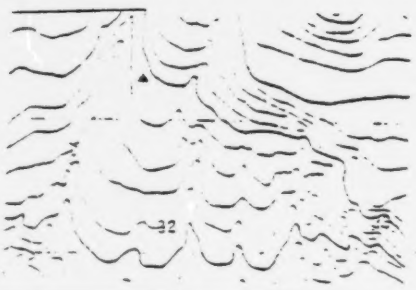
(d) Revisitor Date ___ ___ 19 ___

Date ___ ___ 19 ___

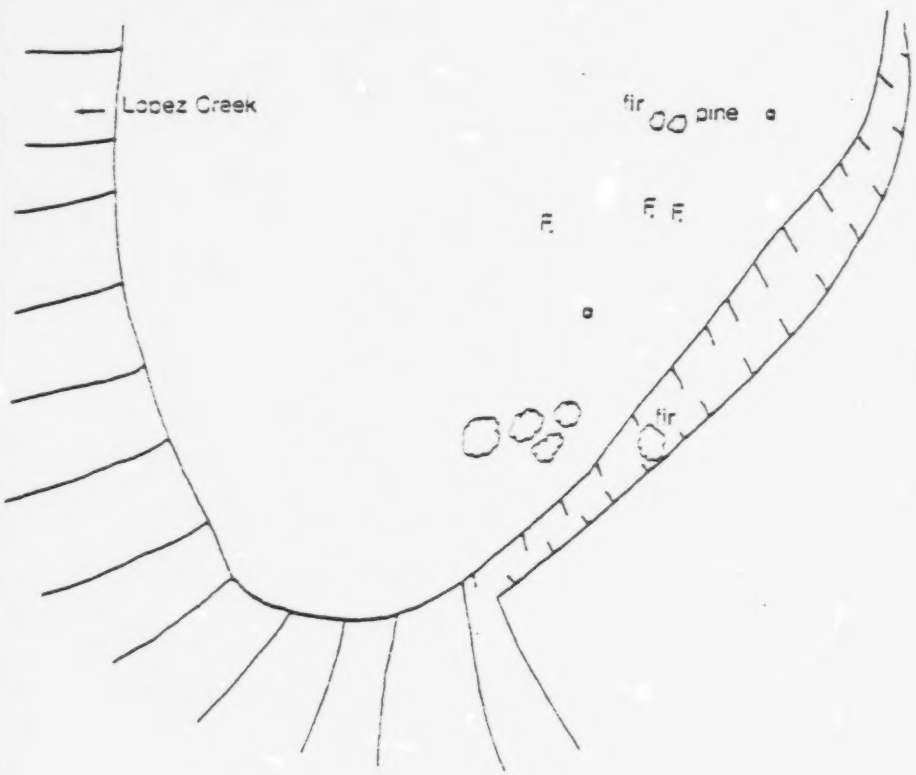
26. Remarks Three shovel tests revealed no additional materials.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

1:50,000



SITE NO. EfRh 12



EXTENT OF SITE

BUILDING

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

F Flake

a Shovel test

1:50,000 MAP NO. 92F/14

LATITUDE 50° 50' 27" N

LONGITUDE

UTM GRID REF. 10UFM 201333

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Dec 10/82

SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh— 11

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T4

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T22, R24, W6M

5. (a) Location Site is situated northeast of the town of Cache Creek on a terrace on the east side of Lopez Creek.

(b) Access Access was by helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—26, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 23" N. 8. Long. 121° 17' 39" W.

9. UTM 10U FM/E 201 N 332 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Lopez Creek (b) major 8, Thompson

13. Elevation (a) 885 m ASL (b) not recorded

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 50 m N–S × 20 m E – W (b) estimated Unknown

(c) original N/A

17. Condition (a) present 100 % intact (b) future None known

18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix Lithics

(d) Depth of cultural matrix Surface

(e) Non-cultural matrix Unknown

(f) Water source Lopez Creek 25 m west, 74 m below

20. Known finds and present location

Approximately 35 pieces of basalt debitage were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R1:7,10,11

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 26, 19 82

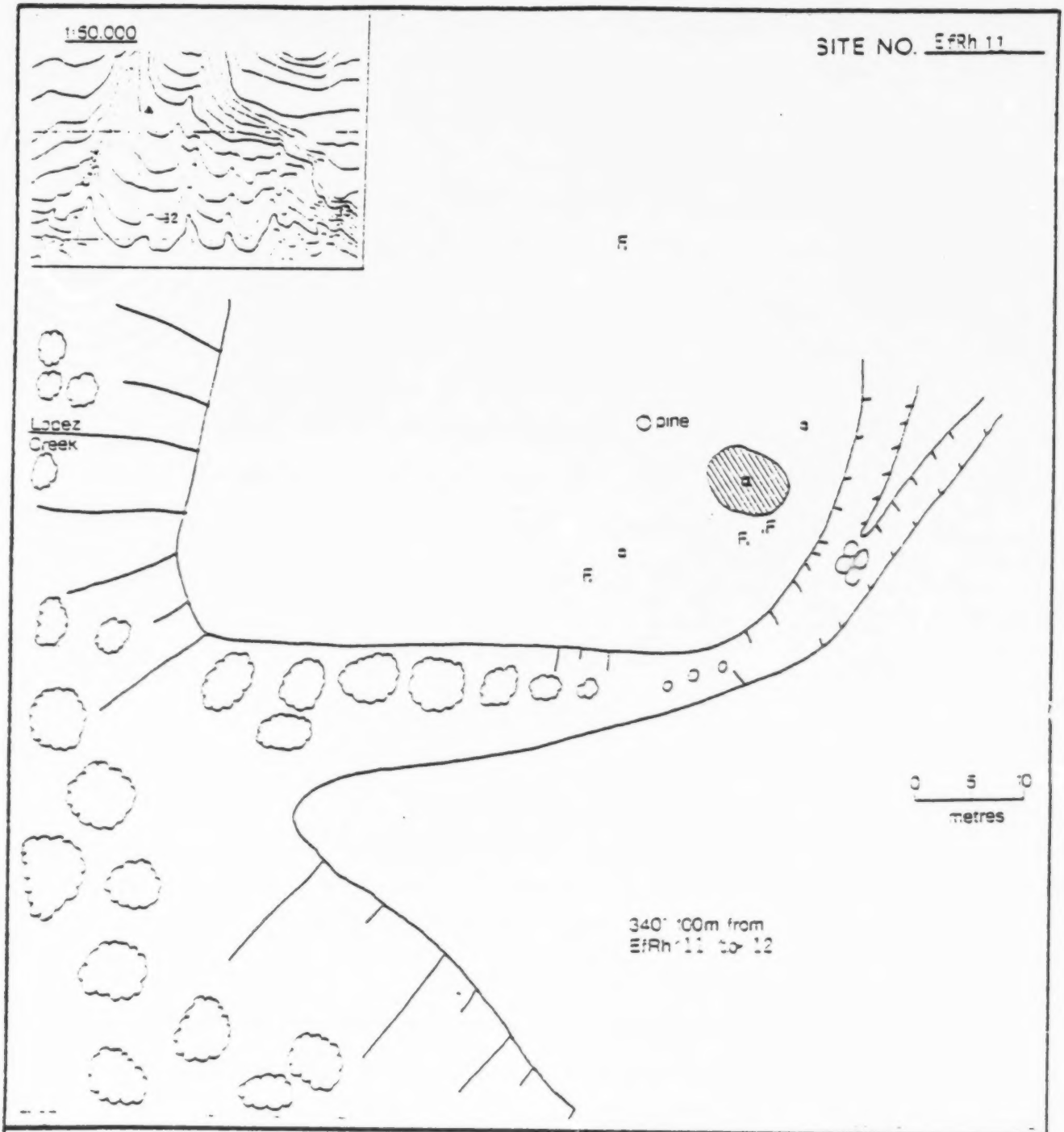
(c) Recorder Jane Warner Date Oct 28, 19 82

(d) Revisitor Date ___, 19 ___

Date ___, 19 ___

26. Remarks

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.


1:50,000
SITE NO. EfRh 11
Lacez Creek
pine
F
0 5 10
metres
340° 100m from EfRh 11 to 12
EXTENT OF SITE
BUILDING
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE
ADDITIONAL LEGEND
Conifer
Deciduous tree
Artifact concentration
Flake
Shovel test
1:50,000 MAP NO.
LATITUDE
LONGITUDE
UTM GRID REF.
TRUE
MAGNETIC
DECLINATION USED
DATE Oct 28/82
SCALE: 1 CM. =
M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh— 13

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T2

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T22, R24, W6M

5. (a) Location Site is situated northeast of the town of Cache Creek on a sideslope above a large terrace on the east side of an unnamed tributary of Cache Creek.

(b) Access Access was gained via helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2—216, Lillooet

(d) Park Dist. 2—5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 25" N. 8. Long. 121° 17' 13" W.

9. UTM 10U FM/E 206 N 333 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L37-T07-X3M

12. Drainage (a) minor Cache Creek (b) major 8, Thompson

13. Elevation (a) 960 m ASL (b) 75 m above unnamed tributary of Cache Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 10m N – S × 10 m E – W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future Within r-o-w proposed B.C.H. & P.A. Kelly Lake X Nicola t/l. 18. Priority

19. Detailed information (a) Vegetation on site grasses, bitterroot, sagebrush, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source unnamed tributary of Cache Creek 75 m west, 75 m below

20. Known finds and present location

3 basalt flakes were observed in 1982 and left in situ.

21. Photo record ARESCO 0684 R1:6

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 25. 19 82

(c) Recorder Jane Warner Date Mar 10. 19 83

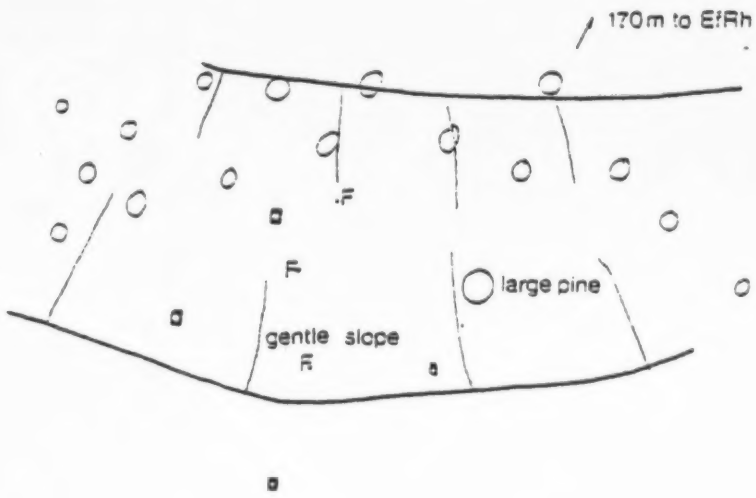
(d) Revisitor Date ____ ____. 19 ____

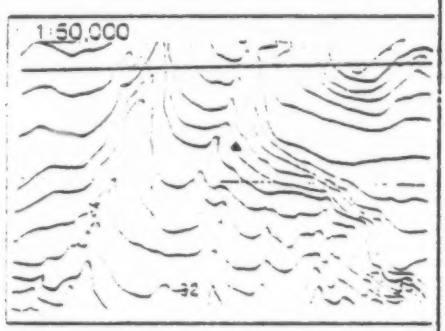
Date ____ ____. 19 ____

26. Remarks None of the 4 shovel tests was productive.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

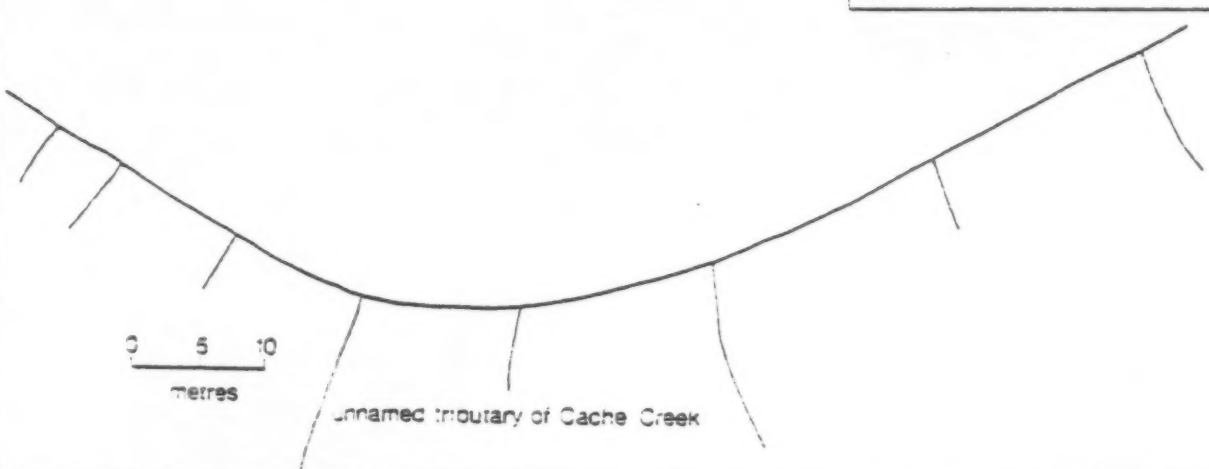
SITE NO. EfRh 13





fairly level terrace

grasses, sagebrush, bitterroot



EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND

○ Fir and pine

F Flake

□ Shovel test

1:50,000 MAP NO. 92I/14

LATITUDE 50° 50' 26" N

LONGITUDE 121° 17' 23" W

UTM GRID REF. 10UFM 206333

TRUE □ MAGNETIC □

DECLINATION USED

DATE Jan. 10 80

SCALE: 1 CM. = ____ M.

0

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh — 15

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T6

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T22, R24, W6M

5. (a) Location Site is located northeast of the town of Cache Creek on a slope above the terrace on the east side of an unnamed intermittent tributary of Cache Creek.

(b) Access Access was gained via helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 25" N. 8. Long. 121° 17' 08" W.

9. UTM 10U FM/E 207 N 332 10. Air photo Unknown

11. Map (a) 92I/14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Cache Creek (b) major 8, Thompson

13. Elevation (a) 975 m ASL (b) 100 m above unnamed tributary of Cache Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity, lithic scatter

16. Dimensions (a) exact 1 m N-S × 1 m E-W (b) estimated Unknown

(c) original N/A

17. Condition (a) present 100 % intact (b) future Within r-o-w proposed B.C.H. & P.A. Kelly Lake X Nicola t/l. 18. Priority

19. Detailed information (a) Vegetation on site grasses, rabbitbush, fir, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source unnamed intermittent tributary of Cache Creek 150 m southwest, approx. 120 m below

20. Known finds and present location

2 basalt flakes were observed in 1982 and left in situ.

21. Photo record ARESCO J684 R3:6

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3: ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date Oct 25. 19 82

(c) Recorder Jan Warner Date Mar 25. 19 83

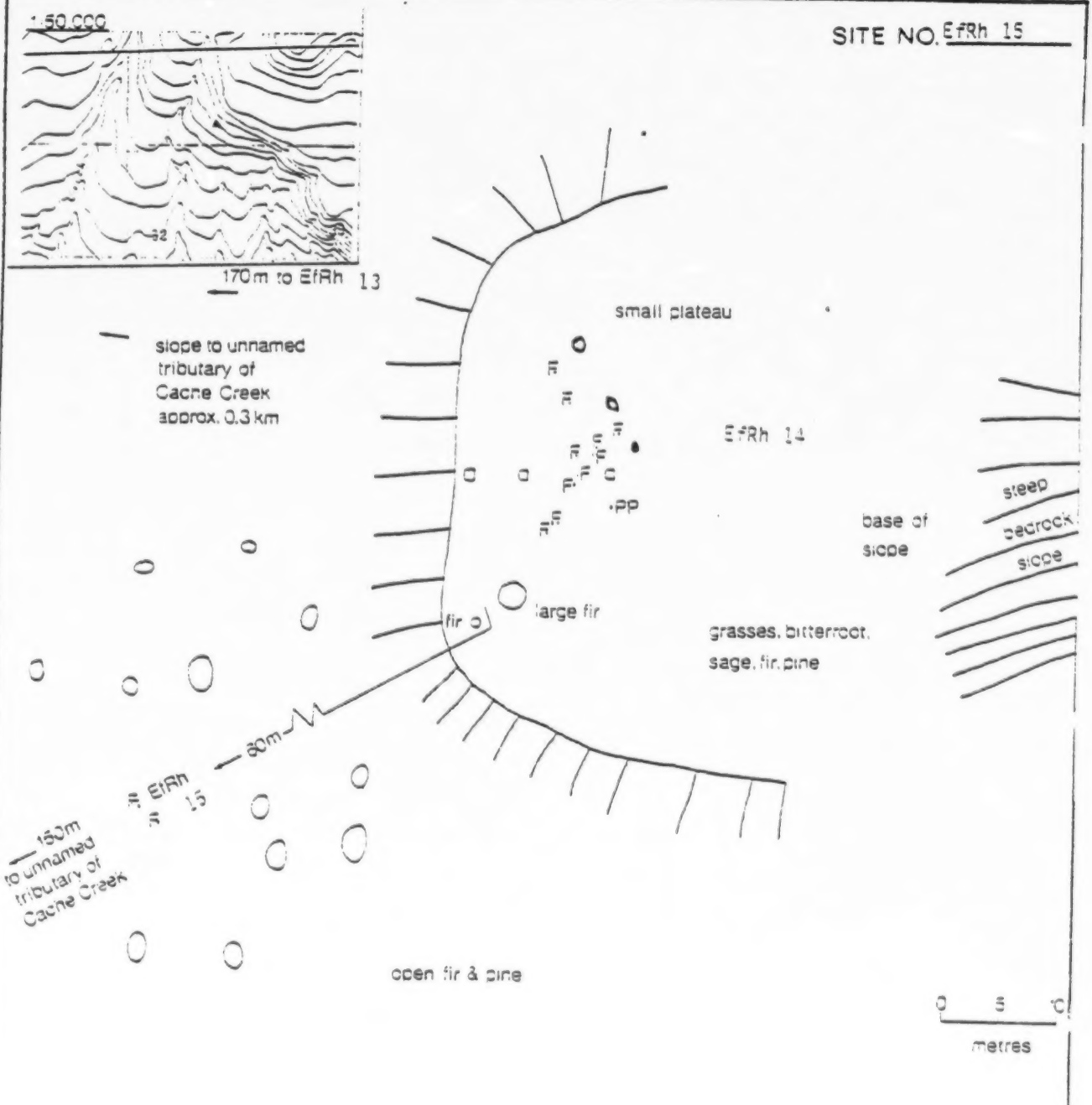
(d) Revisitor Date ___. 19 ___

Date ___. 19 ___

26. Remarks This small site was not shovel tested. It is possibly an extension of EfRh 14.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRh 15



EXTENT OF SITE
BUILDING
FOUNDATION
ROAD
TRAIL
RAILWAY
FENCE
RIVER/CREEK
STEEP RISE

ADDITIONAL LEGEND
Boulder
F. Flake
PP. Projectile point
Fir and pine
Shovel test

1:50,000 MAP NO. 92I/14
LATITUDE 50° 50' 25" N
LONGITUDE [illegible]
UTM GRID REF. 10UEM 207332
TRUE ☐ MAGNETIC ☐
DECLINATION USED
DATE Jan. 25/82
SCALE: 1 CM. = ____ M.

PLEASE CONSULT ACCOMPANYING GUIDE BEFORE COMPLETING

1. Site No. EfRh — 14

BRITISH COLUMBIA ARCHAEOLOGICAL SITE INVENTORY FORM

2. Previous designation(s) EfRh T1

3. Site name(s) Unknown

4. Legal Kamloops Division Yale Land District, T22, R24, W6M

5. (a) Location Site is situated northeast of the town of Cache Creek on a high bench above the terrace on the east side of an unnamed tributary of Cache Creek.

(b) Access Access was gained via helicopter.

6. Administrative jurisdiction (a) Regional Dist. Thompson - Nicola

(b) Forest/Grazing Dist. Kamloops (c) Highways Dist. 2 — 26, Lillooet

(d) Park Dist. 2 — 5, Thompson River (e) Resource Management Reg. Thompson-Okanagan

7. Lat. 50° 50' 25" N. 8. Long. 121° 17' 05" W

9. UTM 10U FM/E 208 N 332 10. Air photo Unknown

11. Map (a) 92 I/ 14 (b) B.C. Hydro Drawing No. 5L87-T07-X3M

12. Drainage (a) minor Cache Creek (b) major 8, Thompson

13. Elevation (a) 973 m ASL (b) 120 m above unnamed tributary of Cache Creek

14. Cultural affiliation (a) Interior Salish, Shuswap (b) Unknown

15. Site type General activity - lithic scatter

16. Dimensions (a) exact 20 m N-S × 20 m E - W (b) estimated N/A

(c) original Unknown

17. Condition (a) present 100 % intact (b) future Within r-o-w proposed B.C.H. & P.A. Kelly Lake X Nicola t/l 18. Priority

19. Detailed information (a) Vegetation on site grasses, sagebrush, bitterroot, fir, pine

(b) Major vegetation Ponderosa pine - bunchgrass (Py) (Krajina 1976)

(c) Cultural matrix lithics

(d) Depth of cultural matrix surface

(e) Non-cultural matrix unknown

(f) Water source Unnamed tributary of Cache Creek 0.4 km west, 120 m below

20. Known finds and present location

10 basalt flakes and 1 broken project point were observed in 1982 and left in situ.

21. Photo record ARESCO J684 RL:3,4

22. Published and unpublished references (a) N/A

(b) Warner, E.J. M.O. 1982-3; ARESCO (cont'd)

23. Site age and/or date (a) Unknown ☐ absolute ☐ relative

(b) Source N/A

24. Owner/Tenant Unknown

25. (a) Informant None

(b) Observer Jane Warner, Bob Hansen Date 01 Jun 25. 19 82

(c) Recorder Jane Warner Date 01 Jun 25. 19 83

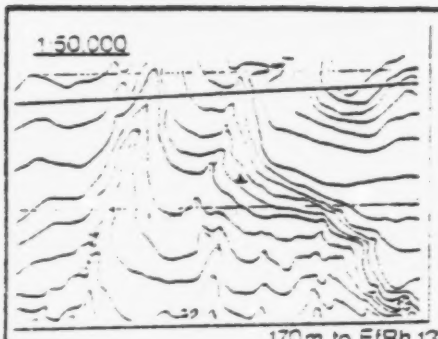
(d) Revisitor Date ____ ____. 19 ____

Date ____ ____. 19 ____

26. Remarks None of the 3 shovel tests was productive.

22.(b)(cont'd) Heritage Resource Inventory and Impact Assessment Kelly Lake - Nicola t/l, Hat Creek Bypass Segment. B.C. Hydro, Vancouver.

SITE NO. EfRh 14



slope to unnamed tributary of Cache Creek approx. 0.3 km

small plateau

base of slope

steep bedrock slope

large fir

fir

grasses, bitterroot, sage, fir, pine

60m

EfRh 13

150m to unnamed tributary of Cache Creek

open fir & pine

0 5 10
metres

EXTENT OF SITE

BUILDING

FOUNDATION

ROAD

TRAIL

RAILWAY

FENCE

RIVER/CREEK

STEEP RISE

ADDITIONAL LEGEND

Boulder

F Flake

PP Projectile point

Fir and pine

Shovel test

1:50,000 MAP NO. 92I/11

LATITUDE 50° 50' 25" N

LONGITUDE 121° 17' 05" W

UTM GRID REF. 10UFM 209332

TRUE ☐ MAGNETIC ☐

DECLINATION USED

DATE Jan. 25/93

SCALE: 1 CM. = ____ M.

0

Appendix 2

SOIL PROFILES

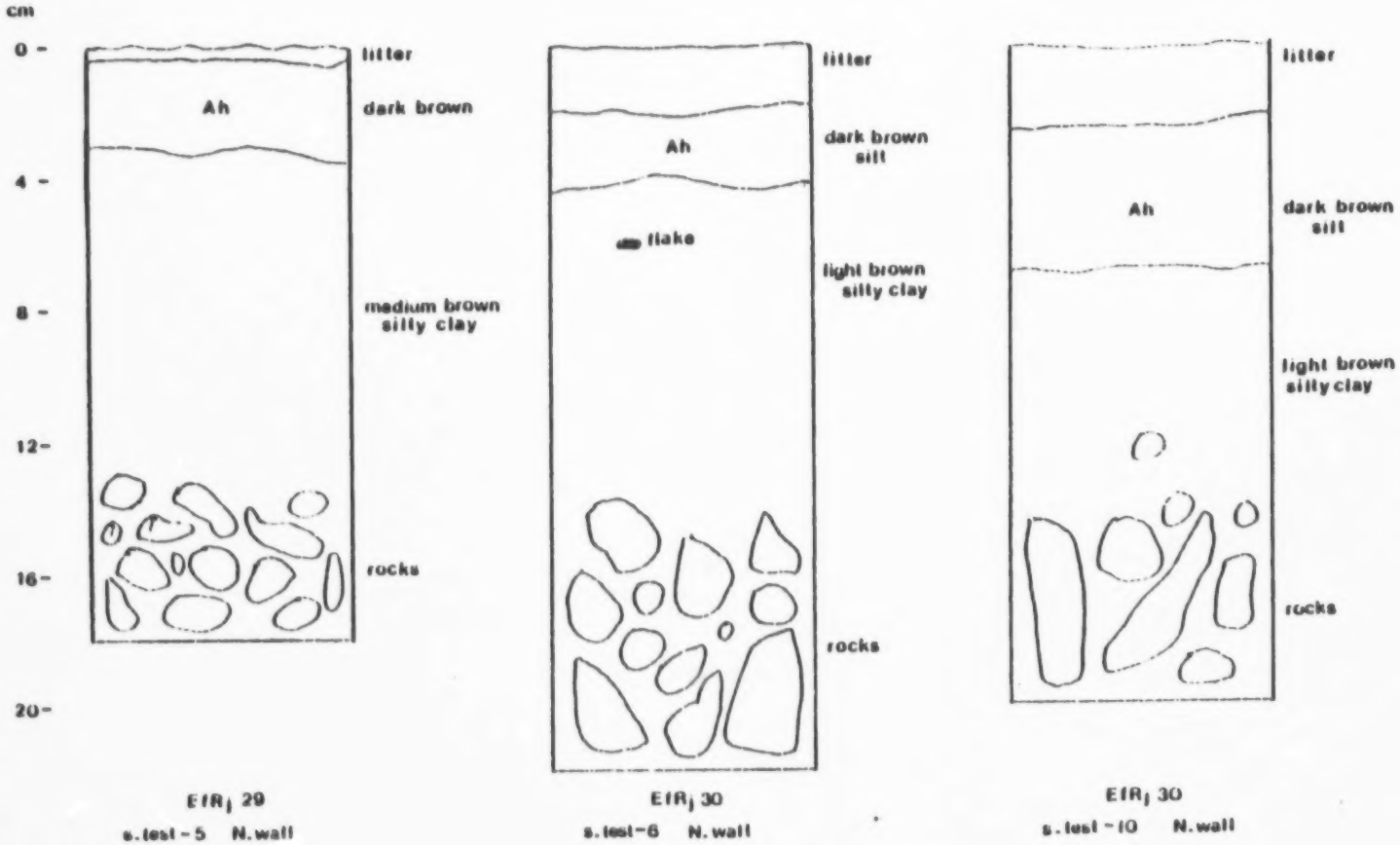


Figure 2 - Malden Creek Soil Profiles

POOR

QUALITY

ORIGINAL